# 13 DISPOSAL CONSIDERATIONS

information provided is for unused product, only.

Recommended method of disposal:

Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:

To the best of our knowledge, this product is not listed nor does it meet the criteria of a hazardous waste if discarded in its purchased form. However, under RCRA, it is the responsibility of the user to determine at the time of disposal whether a product meets any of the RCRA hazardous waste criteria. This is because product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignifability, corresivity, reactivity and toxicity characteristics under the new Toxicity Characteristics Leaching Procedure (TCLP) 40 Code of Federal Regulations 261.20-24.

## 14 TRANSPORTINEORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

# 5. REGULATION Y INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** 

**CERCLA/SARA Section 311/312:** 

None above reporting de minimis

**CERCLA/SARA Section 313:** 

None above reporting de minimis

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

**CEPA DSL/NDSL Status:** 

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

# 16 OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Jennifer Altman, Sr. Regulatory Affairs Specialist

Issue date:

08/05/2014

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Revision Number: 002.0 Issue date: 12/15/2014

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Loctite® PL300® Foamboard Construction Adhesive Water based adhesive

Product type: Restriction of Use:

None identified

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067 IDH number: 1421941

Region: United States

Contact information:

Telephone: +1 (800) 624-7767

MEDICAL EMERGÉNCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

# 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: A

ABRASION COULD RELEASE RESPIRABLE PARTICLES OF SILICA QUARTZ, A CANCER HAZARD BY INHALATION. NORMAL USE OF THIS PRODUCT CAUSES NO SUCH RELEASE.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
EYE IRRITATION	2A

# PICTOGRAM(S)



#### **Precautionary Statements**

Prevention:

Wash thoroughly after handling. Wear eye and face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to remove. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Disposal: Not prescribed Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Limestone	1317-65-3	30 - 60
Quartz (SiO2)	14808-60-7	0.1 - 1

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

Inhalation: No specific treatment is necessary since material is not likely to be hazardous

by inhalation.

Skin contact: Wash affected area immediately with soap and water.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If

symptoms develop and persist, get medical attention.

Ingestion: Consult a physician if necessary.

Symptoms: See Section 11.

IDH number: 1421941

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide, foam, powder Water fog.

Special firefighting procedures: Use water spray to keep fire exposed containers cool and disperse vapors.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen.

# 6: ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Not available.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for

disposal.

# 7. HANDLING AND STORAGE

Handling: Avoid prolonged or repeated skin contact with this material. Keep out of the

reach of children.

Storage: For safe storage, store at or above 0 °C (32°F)

Keep from freezing. Store in a cool, dry area. Keep containers closed when

not in use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established exposure limits.

Respiratory protection: No personal respiratory protective equipment normally required.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Suitable protective clothing

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: pasty
Color: Blue
Odor: Mild, acrylic
Odor threshold: Not available.
pH: 7.0 - 7.5

Vapor pressure:15 mm hg (20 °C (68°F))Boiling point/range:100 °C (212°F)Melting point/ range:Not available.Specific gravity:1.224

Vapor density:

Flash point:

1.224

Heavier than air not applicable

Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not available.

Evaporation rate: < 0.6 (Butyl acetate = 1)

Solubility in water: Soluble Partition coefficient (n-octanol/water): Not available.

 VOC content:
 < 1 %; 33 g/l (calculated)</td>

 Viscosity:
 280,000 - 380,000 mPa.s

Decomposition temperature: Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen.

Incompatible materials: None

Reactivity: Not available.

Conditions to avoid: Heat. Do not freeze.

IDH number: 1421941 Product name: Loctite® PL300® Foamboard Construction Adhesive Page 3 of 5

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin contact

#### Potential Health Effects/Symptoms

Inhalation:

Abrasion of cured material such as by sanding or grinding could release respirable particles of

silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release.

Skin contact:

May cause slight irritation to skin.

Eye contact:

May cause slight irritation to eyes on contact.

Ingestion:

Not expected to be harmful by ingestion. Ingestion of large amounts may produce

gastrointestinal disturbances including irritation, nausea, and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Limestone	None	Nuisance dust
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:

It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

International Air Transportation (ICAO/IATA)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

IDH number: 1421941 Product name; Loctite® PL300® Foamboard Construction Adhesive Page 4 of 5

Water Transportation (IMO/IMDG)

Proper shipping name: Hazard class or division:

Not regulated

Identification number: Packing group:

None None None

# 15. REGULATORY INFORMATION

## **United States Regulatory Information**

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** CERCLA/SARA Section 311/312:

None above reporting de minimis Delayed Health

CERCLA/SARA Section 313:

None above reporting de minimis

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

**CEPA DSL/NDSL Status:** 

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:

Mary Ellen Roddy, Sr. Regulatory Affairs Specialist

Issue date:

12/15/2014

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Revision Number: 001.0

Issue date: 12/05/2014

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Loctite® PL375™ Heavy Duty Construction Adhesive - VOC IDH number:

1390601

Product type:

Water based adhesive

Region:

**United States** 

Restriction of Use: Company address: None identified

Contact information:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

Telephone: +1 (800) 624-7767

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

WARNING:

ABRASION COULD RELEASE RESPIRABLE PARTICLES OF SILICA QUARTZ, A CANCER HAZARD BY INHALATION. NORMAL USE OF THIS PRODUCT CAUSES NO SUCH RELEASE.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
EYE IRRITATION	2A

# PICTOGRAM(S)



#### **Precautionary Statements**

Prevention:

Wash thoroughly after handling. Wear eye and face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to remove. Continue rinsing. If eye irritation persists: Get medical attention.

Storage:

Not prescribed

Disposal:

Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Limestone	1317-65-3	30 - 60
Kaolin	1332-58-7	1-5
Ethylene glycol	107-21-1	1-5

IDH number: 1390601

Quartz (SiO2) 14808-60-7 0.1 - 1

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

# 4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. Get immediate

medical attention.

Skin contact: Wash affected area immediately with soap and water.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If

symptoms develop and persist, get medical attention.

Ingestion: Consult a physician if necessary.

Symptoms: See Section 11.

and a few statements of the property of the life.

IDH number: 1390601

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Use water spray to keep fire exposed containers cool and disperse vapors.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen.

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow product to

enter sewer or waterways.

Clean-up methods: Scrape up spilled material and place in a closed container for disposal.

Dispose of according to Federal, State and local governmental regulations.

# 7. HANDLING AND STORAGE

Handling: Avoid prolonged or repeated skin contact with this material. Keep out of the

reach of children.

Storage: For safe storage, store at or above 0 °C (32°F)

Keep from freezing. Store in a cool, dry area. Keep containers closed when

not in use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Kaolin	2 mg/m3 TWA Respirable fraction.	15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction.	None	None
Ethylene glycol	100 mg/m3 Ceiling Aerosol.	None	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None

Engineering controls:

Ventilation should effectively remove and prevent buildup of any dust

generated from the handling of this product.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin

contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

arayayner karastalayo dhake Physical state:

Color: Odor:

Odor threshold:

pH:

Vapor pressure:

Boiling point/range: Melting point/ range: Specific gravity:

Vapor density:

Flash point:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper: Autoignition temperature:

Evaporation rate: Solubility in water:

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Paste Tan

Mild

Not available.

7.2 - 7.8

15 mm hg (20.0 °C (68°F))

100 °C (212°F) Not available. 1.224

Heavier than air

No flashpoint. Aqueous preparation.

Not available. Not available.

Not available.

< 0.6 (Butyl acetate = 1)

Soluble Not available.

0.1 %; 49 g/l (by weight, calculated using CARB method; g/L less water, less

exempts calculated using SCAQMD method)

Not available.

Decomposition temperature: Not available.

# 10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and use.

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen.

Incompatible materials:

This product may react with oxidizing agents.

Reactivity:

Not available.

Conditions to avoid:

Privation in the Company of the Comp

Heat. Do not freeze.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Inhalation, Skin contact

#### Potential Health Effects/Symptoms

Inhalation:

May cause irritation to nose and throat. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation.

Normal use of this product causes no such release.

Skin contact:

May cause slight irritation to skin.

Eye contact:

May cause slight irritation to eyes on contact.

Ingestion:

Not expected to be harmful by ingestion. Ingestion of large amounts may produce

gastrointestinal disturbances including irritation, nausea, and diarrhea.

azardous Component(s) LD50s and LC50s		Immediate and Delayed Health Effects
Limestone	None	Nuisance dust
Kaolin	Oral LD50 (RAT) = > 5,000 mg/kg Dermal LD50 (RAT) = > 5,000 mg/kg	Nuisance dust
Ethylene glycol	Oral LD50 (RAT) = 5.89 g/kg Dermal LD50 (RABBIT) = 9,530 mg/kg	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Kaolin	No	No	No
Ethylene glycol	No	No	No
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No

# 12 ECOLOGICAL INFORMATION

**Ecological information:** 

IDH number: 1390601

Not available.

# 13. DISPOSAL CONSIDERATIONS

#### Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:

It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Not regulated

Hazard class or division:

None

Identification number: Packing group:

None None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated

Hazard class or division:

None

Identification number:

None

Packing group:

None

Water Transportation (IMO/IMDG)

Proper shipping name:

Not regulated

Hazard class or division: Identification number:

None None

Packing group:

None

# 15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

None above reporting de minimis

Immediate Health, Delayed Health

CERCLA/SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Ethylene glycol (CAS# 107-21-1).

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

**CEPA DSL/NDSL Status:** 

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

IDH number: 1390601 Product name: Loctite® PL375™ Heavy Duty Construction Adhesive - VOC Page 5 of 6

Prepared by:

Mary Ellen Roddy, Sr. Regulatory Affairs Specialist

Issue date:

12/05/2014

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IDH number: 1390601



Issue date: 11/14/2014 Revision Number: 001.2

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

Loctite PL400 Subfloor Adhesive

Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

Assembly adhesive, solvent

IDH number:

1652275

Region:

**United States** 

Contact information:

Telephone: +1 (800) 624-7767

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

DANGER:

ABRASION COULD RELEASE RESPIRABLE PARTICLES OF SILICA QUARTZ, A CANCER HAZARD BY INHALATION. NORMAL USE OF THIS PRODUCT CAUSES NO SUCH RELEASE.

HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
EYE IRRITATION	2A





## **Precautionary Statements**

Prevention:

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves, eye protection, and face protection.

Response:

If on skin (or hair): Take off immediately all contaminated clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing, If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

IDH number: 1652275 Product name: Loctite PL400 Subfloor Adhesive Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS CAS Number Hazardous Component(s) Percentage\* Limestone 1317-65-3 10 - 30 Kaolin 1332-58-7 10 - 30 Acetone 67-64-1 10 - 30 Pentaerythritol ester of rosin Proprietary 1 - 5 Methyl acetate 79-20-9 1 - 5 Quartz (SiO2) 14808-60-7 0.1 - 1

## 4. FIRST AID MEASURES

Inhalation:

If inhaled, immediately remove the affected person to fresh air. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.

Skin contact: Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion: Do not induce vomiting, seek medical advice immediately.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

# 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide. In case of fire, keep containers cool

with water spray.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode. Wear full protective

clothing.

Unusual fire or explosion hazards: Closed containers may explode when exposed to extreme heat. Vapors may

form explosive mixtures with air. Vapors are heavier than air and may travel

along floor to an ignition source.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Ventilate area. Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.

IDH number: 1652275 Product name: Loctite PL400 Subfloor Adhesive

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

Clean-up methods:

Use noncombustible absorbent material such as sand. Use non-sparking tools for clean-up. Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

# 7. HANDLING AND STORAGE

Handling: Do not pressurize, cut, heat or weld containers. Empty product containers

may contain product residue. Do not reuse empty containers. Use only in well-ventilated areas. Keep out of the reach of children. Keep away from heat, spark and flame. Containers should be grounded and bonded to the receiving

container.

Storage: For safe storage, store between -20 °C (-4°F) and 50 °C (122°F)

Keep away from heat, spark and flame. Keep containers closed when not in

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ponent(s) ACGIH TLV OSHA PEL		AIHA WEEL	OTHER	
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None	
Kaolin	2 mg/m3 TWA Respirable fraction.	15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction.	None	None	
Acetone	750 ppm STEL 500 ppm TWA	1,000 ppm (2,400 mg/m3) PEL	None	None	
Pentaerythritol ester of rosin	None	None	None	None	
Methyl acetate	200 ppm TWA 250 ppm STEL	200 ppm (610 mg/m3) PEL	None	None	
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None	

**Engineering controls:** Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational exposure

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists. When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that

follows 29 CFR 1910.134 must be followed.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Chemical resistant, impermeable gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color:

Liquid or paste Beige

Odor:

Acetone-like

Odor threshold:

Not available.

IDH number: 1652275

Product name: Loctite PL400 Subfloor Adhesive

pH:

Vapor pressure: Not available.

Boiling point/range: 56 - 57 °C (132.8 - 134.6 °F)

Melting point/ range: < 0 °C (< 32°F)

Specific gravity: 1.44 Vapor density: 2.0

Flash point:

-17 °C (1.4 °F)
Flammable/Explosive limits - Iower:
Not available.
Flammable/Explosive limits - upper:
Not available.
Autoignition temperature:
Not available.

Evaporation rate: 14.4
Solubility in water: Slightly soluble

Partition coefficient (n-octanol/water):

VOC content:

Not available.

0.22 %; 5.67 g/l (by weight, calculated using CARB method; g/L less water,

less exempts calculated using SCAQMD method)

Viscosity: 375,000 mPa.s Decomposition temperature: Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be

products: generated by thermal decomposition or combustion.

Incompatible materials: Strong oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Inhalation, Skin contact

IDH number: 1652275 Product name: Loctite PL400 Subfloor Adhesive

### Potential Health Effects/Symptoms

Inhalation:

Irritates the nose, throat and respiratory system. Exposure to high doses may cause central nervous system depression. Such doses may also cause adverse effects in the liver, kidneys, and lungs. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating

and inhaling the contents may be harmful or fatal.

Skin contact: Eye contact: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. Contact with eyes can cause eye irritation. Symptoms may include stinging, tearing, redness,

and received a contract of the property of the state of

swelling, and blurred vision.

Ingestion:

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects		
Limestone	None	Nuisance dust		
Kaolin	Oral LD50 (RAT) = > 5,000 mg/kg Dermal LD50 (RAT) = > 5,000 mg/kg	Nuisance dust		
Acetone	Oral LD50 (RABBIT) = 5,340 mg/kg Oral LD50 (RAT) = 5,800 mg/kg Oral LD50 (RAT) = 9,800 mg/kg Dermal LD50 (RABBIT) = 20,000 mg/kg Inhalation LC50 (RAT, 8 h) = 50.1 mg/l Inhalation LC50 (RAT, 4 h) = 76 mg/l	Blood, Central nervous system, Irritant, Reproductive		
Pentaerythritol ester of rosin	None	Irritant		
Methyl acetate	Oral LD50 (RABBIT) = 3.7 g/kg	Blood, Central nervous system, Eyes, Irritan		
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity		

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Limestone	No	No	No	
Kaolin	No	No	No	
Acetone	No	No	No	
Pentaerythritol ester of rosin	No	No	No	
Methyl acetate	No	No	No	
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No	

	OLOGICAL INFORMAT	

**Ecological information:** 

None expected.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:

It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24. If discarded, this product is considered a RCRA ignitable waste, D001.

# 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Adhesives

Hazard class or division: Identification number:

3 UN 1133

Packing group:

II.

International Air Transportation (ICAO/IATA)

Proper shipping name:

Adhesives

Hazard class or division:

3

Identification number: Packing group:

UN 1133

Water Transportation (IMO/IMDG)

Proper shipping name:

**ADHESIVES** 

Hazard class or division:

3

Identification number: Packing group:

sarian izuelleturi enerektoriakining

UN 1133

## 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification:

None above reporting de minimis

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

None above reporting de minimis Fire, Immediate Health, Delayed Health

CERCLA/SARA Section 313:

California Proposition 65:

None above reporting de minimis

This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s):

7

IDH number: 1652275 Product name: Loctite PL400 Subfloor Adhesive

Prepared by:

Mary Ellen Roddy, Sr. Regulatory Affairs Specialist

Issue date:

11/14/2014

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IDH number: 1652275 Product name: Loctite PL400 Subfloor Adhesive



#### Safety Data Sheet

TYPE 1

Safety Data Sheet dated: 7/28/2015 - version 3

Date of first edition: 5/22/2015

#### 1. IDENTIFICATION

#### **Product identifier**

Mixture identification:

Trade name: TYPE 1

Recommended use of the chemical and restrictions on use

Recommended use: Adhesive Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico) 1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### **Emergency 24 hour numbers:**

(USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

#### 2. HAZARD(S) IDENTIFICATION

#### Classification of the chemical

Classification of the chemical

No specific hazards are encountered under normal product use.

#### Label elements

Code Description

P202 Do not handle until all safety precautions have been read and understood.

P261.B Avoid breathing dust.

P264.2 Wash skin thoroughly after handling.
P280.1 Wear protective gloves and eye protection.

P501.A Dispose of contents/container in accordance with applicable regulations.

#### Ingredient(s) with unknown acute toxicity:

None

## Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Substances

N.A.

## **Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Quantity Name

ldent. Numb.

Classification

0.1-1 % Silica Sand

CAS:14808-60-7

Carc. 1A, H350.A; STOT RE 1, H372.A

# 4. FIRST AID MEASURES

## Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

Date

7/28/2015

Production Name

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

Indication of any immediate medical attention and special treatment needed

#### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

#### Unsuitable extinguishing media:

None in particular.

## Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Hazardous combustion products: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

#### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

# Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

# is for safe storage, including any incompatibilities

imperature: N.A. ble materials:

lone in particular.

ns as regards storage premises: \dequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

List of components with OEL value

Component

**OEL Type Country** 

Ceiling Long Term mg/m3

Long Term

Short Term

Short Term

Behaviour

Note

Silica Sand

**ACGIH** 

0,025

ma/m3 ppm

ppm

A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A. **Individual protection measures** 

Eve protection:

Use close fitting safety goggles, don't use eye lens.

Date

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Production Name

TYPE 1

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Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Paste white

Odour: Slightly latex like Odour threshold: N.A.

pH: 8.50

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 100 °C (212 °F)

Flash point: >93,3 °C (199,9 °F) Evaporation rate: Same as water

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A. Relative density: N.A.

Solubility in water: Dispersible

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A.

#### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A. Fat Solubility: N.A. Conductivity: N.A.

### 10. STABILITY AND REACTIVITY

#### Reactivity

Stable under normal conditions

# Chemical stability

Data not Available.

## Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

## **Incompatible materials**

None in particular.

#### Hazardous decomposition products

None.

# 11. TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Silica Sand

a) acute toxicity

LD50 Oral Rat = 500mg/kg

Petroleum distillate

a) acute toxicity

LD50 Skin Rabbit > 2000mg/kg

LC50 Inhalation Rat = 4,60000mg/l 4h

Date

7/28/2015

Production Name

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity

b) skin corrosion/irritation

c) serious eye damage/irritation

d) respiratory or skin sensitisation

e) germ cell mutagenicity

f) carcinogenicity

g) reproductive toxicity

h) STOT-single exposure

i) STOT-repeated exposure

j) aspiration hazard

Substance(s) listed on the IARC Monographs:

Silica Sand

Group 1

Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

#### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Quantity Component

ldent. Numb.

**Ecotox Infos** 

0.1-1 % Silica Sand

CAS: 14808-60-7

LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

#### Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

# 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

#### 14. TRANSPORT INFORMATION

**UN** number

Date

ADR-UN number: N/A DOT-UN Number: N/A IATA-Un number: N/A IMDG-Un number: N/A

UN proper shipping name

ADR-Shipping Name: N/A DOT-Proper Shipping Name: N/A IATA-Technical name: N/A IMDG-Technical name: N/A

Transport hazard class(es)

ADR-Class: N/A

7/28/2015

Production Name

DOT-Hazard Class: N/A IATA-Class: N/A IMDG-Class: N/A

Packing group

ADR-Packing Group: N/A
DOT-Packing group: N/A
IATA-Packing group: N/A
IMDG-Packing group: N/A

**Environmental hazards** 

Marine pollutant: No

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT-Label(s): N/A
DOT-Symbol: N/A
DOT-Cargo Aircraft: N/A
DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A DOT-Non-Bulk: N/A Road and Rail (ADR-RID):

ADR-Label: N/A

ADR-Hazard identification number: N/A ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A IATA-Subrisk: N/A IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A IMDG-Stowage Note: N/A IMDG-Subrisk: N/A

IMDG-Special Provisions: N/A

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: N/A IMDG-MFAG: N/A

## 15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Silica Sand

is listed in TSCA

Section 85

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

no substances listed

Section 304 - Hazardous substances:

no substances listed

Section 313 - Toxic chemical list:

no substances listed

Date 7/28/2015

Production Name

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

no substances listed

CAA - Clean Air Act

CAA listed substances:

no substances listed

CWA - Clean Water Act

CWA listed substances:

no substances listed

#### USA - State specific regulations

#### California Proposition 65

Substance(s) listed under California Proposition 65:

Silica Sand

Listed as carcinogen

#### Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Silica Sand

#### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Silica Sand

#### New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Silica Sand

#### 16. OTHER INFORMATION

Code

Description

H350.A

May cause cancer if inhaled.

H372.A

Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 7/28/2015 - version 3

Product code: 4187

## Additional classification information





HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

## Legend to abbreviations and acronyms used in the safety data sheet:

Date 7/28/2015 Production Name TYPE 1 Page n. 6 of 7

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

# Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION

Date 7/28/2015 Production Name TYPE 1 Page n. 7 of 7

# Material Safety Data Sheet

# **Section 1 General Information**

Manufacturer:

Zinsser Company, Inc. 173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

Emergency Telephone:

Chemtrec (800) 424-9300

Date: July 18, 2005

**Product Name:** 

SureGrip Universal Wallcovering Adhesive

**Product Codes:** 

02871

02872

# Section 2 Hazardous Ingredients

**OSHA** 

**ACGIH** 

**Hazardous Component** 

CAS#

PEL

TLV

This product contains no hazardous materials as defined by OSHA (29 CFR 1910.1200)

# Section 3 Hazard Identification

**Emergency Overview:** 

This material is a translucent pink paste with a mild odor. It is water miscible

and used as a wallcovering adhesive.

# **Potential Acute Health Effects:**

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

If swallowed, may cause gastrointestinal irritation.

Inhalation:

Inhalation is not considered to be a significant route of exposure.

(See also Sections 4, 8, and 11for related information)

# **Section 4 First Aid Measures**

Eye contact: Flush with water for 15 minutes. Seek medical attention if irritation persists.

Skin contact: Wash material from skin at first opportunity. Contact a physician if symptoms persist.

N/A: Not Applicable

N/D: Not Determined

N/E: Not Established

N/R: Not Required

Est.: Estimated

MSDS Code: SureGrip Universal Wallcovering Adhesive (111-161B)(7-18-05)

Page 1 of 6 pages.

Ingestion: If conscious, give water to drink. Seek medical attention. Do not give anything by mouth

to an unconscious person.

Inhalation: If respiratory discomfort is experienced, remove to fresh air. Contact a physician if

symptoms persist.

Note to Physician: Treat symptomatically.

# **Section 5** Fire Fighting Measures

Flash Point (method): > 200° F

Protection of Firefighters: Self-contained breathing apparatus should be worn in fighting all fires

involving chemicals.

Fire and Explosion Hazards: None.

# Section 6 Accidental Release Measures

Clean Up Methods: For small spills, dike and contain with inert material (sand, earth, etc.) and transfer liquid to containers for recovery or disposal.

For large spills, dike far ahead of the spill. Keep unnecessary people away. Isolate hazard area and deny entry to unauthorized personnel. Stay upwind, keep out of low areas, and ventilate closed spaces before entering. Stop leak if you can do so without risk of injury. Keep spill out of sewer and open bodies of water.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

# Section 7 Handling and Storage

Handling: Avoid contact with eyes and skin. Keep out of reach of children.

Storage: Store at moderate temperatures ( $50^{\circ} - 100^{\circ}$  F). Protect from freezing. Keep container

closed when not in use.

# **Section 8 Exposure Controls / Personal Protection**

Respiratory Protection: Respiratory protection is not usually required, however any room where his product is used should have good ventilation (i.e. open windows, exhaust fans, etc.). A good, normal precaution is to wear protective gloves and glasses. No other protection equipment is usually necessary.

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

MSDS Code: SureGrip Universal Wallcovering Adhesive (111-161B)(7-18-05)

# Personal Protective Equipment (PPE):

**Eye Protection:** 

Wear safety glasses, goggles, or face shield to prevent eye contact.

**Skin Protection:** 

Wear gloves to prevent prolonged skin contact.

**Respiratory Protection:** None required under normal intended use conditions. In areas of poor ventilation or if vapor exposure causes discomfort, wear NIOSH approved respirator with organic vapor cartridges.

**Protective Clothing:** For brief contact, no special precautions other than clean body-covering clothing should be needed. When prolonged or frequent, repeated contact with the material could occur. use protective clothing that is impervious to this material (such as tyvek).

General Hygiene Practices: Wash after handling. Prevent Eye contact. Avoid prolonged skin and inhalation contact. Wash thoroughly before handling food.

#### **Physical Data** Section 9

Appearance:

Translucent pink paste.

Odor:

Mild odor.

**Physical State:** 

Paste.

Specific Gravity (water = 1):

1.01

**Boiling Point:** 

>200° F

**Melting Point:** 

32° F

Vapor Pressure:

N/D

Vapor Density: N/D

Viscosity:

40,000 - 50,000 cps (@74°F)

**pH:** 9.5 - 10.0

Solubility in Water: Dilutable in water.

#### Section 10 **Stability and Reactivity**

**Stability:** This product is stable and compatible with all compounds that are compatible with water and water solutions.

Hazardous Polymerization: Hazardous polymerization will not occur.

#### Section 11 Toxicological Information

Carcinocenicity:

NTP: No

IARC: No

OSHA regulated: No

#### **Ecological Information** Section 12

Chemical Fate and Effects: No data available.

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

MSDS Code: SureGrip Universal Wallcovering Adhesive (111-161B)(7-18-05)

Page 3 of 6 pages.

#### Section 13 **Disposal Considerations**

Recommended Waste Disposal Method: This material is not considered hazardous waste under Federal Hazardous Waste Regulations (40CFR 261). However, state and local requirements for waste disposal may be more restrictive or otherwise differ from federal regulations. Chemical additions. processing or otherwise altering this material may render the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Consult all applicable federal, state, and local regulations regarding the proper disposal of this material.

#### Section 14 **Transportation Information**

US DOT Regulated: Not regulated as a hazardous material.

#### Section 15 Regulatory Information

## CERCLA:

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name

CAS#

Maximum Concentration (Wt. %)

None

# SARA Title III, section 311/312:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name

CAS#

Maximum Concentration (Wt. %)

None

N/A

# SARA Title III, section 313:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name

Maximum Concentration (Wt. %)

None

N/A

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

# TSCA:

The components of this mixture are listed on the US-EPA Toxic Substance Control Act Inventory of Chemical Substances.

This product contains the following chemicals which require export notification under section 12(b) of the TSCA regulation:

**Chemical Name** 

CAS#

2-Methyl-4-Isothiazolin-3-One

2682-20-4

5-Chloro-2-Methyl-4-Isothiazolin-3-One

26172-55-4

# WHMIS:

This product is not a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

# DSL:

The components of this mixture are listed on the Canadian Environmental Protection Act Domestic Substance List (CEPA-DSL).

#### Other Information Section 16

Legend: N/A: Not Applicable

N/E: Not Established

STEL: Short Term Exposure Limit

cps: Centipoise

**mppcf**: million particles per cubic foot of air.

**PPB**: Parts Per Billion

TLV: Threshold Limit Value

ACGIH: American Conference of Governmental Industrial Hygienists CPSC: Consumer Product Safety Commission

FHSA: Federal Hazardous Substance Act

OSHA: Occupational Safety and Health Administration (US Dept. of Labor)

RCRA: Resource Conservation and Recovery Act

SARA: Superfund Amendment and Reauthorization Act

Skin: This substance has the potential to be absorbed systemically through the skin.

**TSCA**: Toxic Substance Control Act

Prepared By: Zinsser Health and Safety Manager, Regulatory Compliance Dept.

173 Belmont Drive

Somerset, NJ 08875

(732) 469-8100

N/A: Not Applicable

N/D: Not Determined N/E: Not Established

N/R: Not Required

N/D: Not Determined

PPM: Parts Per Million

mg/m<sup>3</sup>: milligrams per cubic meter

**PEL**: Permissible Exposure Limit

TWA: Time Weighted Average

N/R: Not Required C: OSHA Ceiling Value

Est.: Estimated

**Disclaimer:** Zinsser Company, Inc. believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated



CERAMIC TILE ADHESIVE 101 839241PM

# SAFETY DATA SHEET

REVISION DATE: 05-27-2015 SUPERSEDES: None

# SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT INFORMATION

PRODUCT:

**CERAMIC TILE ADHESIVE 101** 

PRODUCT DESCRIPTION:

White type I mastic

INTENDED USE:

Adhesive

PRODUCT IDENTIFIER:

839241PM

#### COMPANY INFORMATION

H.B. Fuller Construction Products Inc.

1105 S. Frontenac Street Aurora, IL 60504

Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification:** 

This product is not classified as hazardous under GHS criteria.

GHS Precautions:

First Aid Measures:

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. IF IN EYES: Use an eye wash to remove chemical from the eye, IF ON SKIN: Wash with soap and water. IF INHALED: Remove individual to fresh air after an airborne exposure if any symptoms develop.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	PERCENT	Classification	Note
Crystalline silica	14808-60-7	1 - 5	Carc. 1A; H350 STOT RE 1: H372	* (see below)

<sup>\*</sup>This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

## **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.



## CERAMIC TILE ADHESIVE 101 839241PM

#### SAFETY DATA SHEET

#### **SECTION 5: FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** 

Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

Persons exposed to products of combustion should wear self-

SPECIAL FIRE FIGHTING INSTRUCTIONS:

contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide

## SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:

No adverse health effects expected from the clean-up of spilled material.

Follow personal protective equipment recommendations found in

Section 8 of this MSDS.

METHODS FOR CLEAN-UP:

Dike if necessary, contain spill with inert absorbent and transfer to

containers for disposal. Keep spilled product out of sewers, watersheds,

or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 7: HANDLING AND STORAGE**

Handling:

No special handling instructions due to toxicity.

Storage:

Store in a cool, dry place. Protect from freezing

Consult the Technical Data Sheet for specific storage instructions.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))

<sup>\*</sup>This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

# **ENGINEERING CONTROL METHODS:**

VENTILATION:

Use local exhaust ventilation or other engineering controls to

minimize exposures.

EYE PROTECTION:

Wear safety glasses when handling this product.

SKIN PROTECTION:

Not normally required. Wear chemically resistant gloves to prevent

prolonged or repeated contact.

**GLOVES:** 

Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION:

Respiratory protection may be required to avoid overexposure when



## CERAMIC TILE ADHESIVE 101 839241PM

# SAFETY DATA SHEET

handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Semi-solid
COLOR: White
ODOR: Mild Solvent
ODOR THRESHOLD: Not established

oH: 8.8

FREEZING/MELTING POINT (deg. C):

BOILING POINT (deg. C):

Not established

Not established

FLASH POINT:

EVAPORATION RATE:

Not established

FLAMMABILITY: Not a flammable solid or gas

UPPER EXPLOSIVE LIMIT (% in air):

LOWER EXPLOSIVE LIMIT (% in air):

VAPOR PRESSURE (mm Hg):

VAPOR DENSITY:

Not established

Not established

WEIGHT PER GALLON (lbs.): 12.00 SPECIFIC GRAVITY: 1.490

SOLUBILITY: Not established OCTANOL/WATER COEFFICIENT: Not established AUTOIGNITION TEMPERATURE: Not established DECOMPOSITION TEMPERATURE: Not established VISCOSITY: No data available.

SOLIDS (% by weight): 74.5 VOC, weight percent 0.00

# **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.

CHEMICAL INCOMPATIBILITY: Not established HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Component Toxicity / Toxicology Data:

COMPONENT NAME	LD50/LC50	
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG	<u></u>
Water	ORAL LD50 RAT > 90 ML/KG	
Crystalline silica	ORAL LD50 RAT 500 MG/KG	-

# This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis.

Serious eye damage / irritation :Can cause minor irritation, tearing and reddening.

Respiratory / skin sensitization: No data available.



# CERAMIC TILE ADHESIVE 101

839241PM

#### SAFETY DATA SHEET

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

#### **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW:

No ecological information available for this product.

MOBILITY:

No data available.

PERSISTENCE:

No data available.

BIOACCUMULATION:

No data available.

## This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
No data available.	Acute Toxicity (Fish):
	Acute Toxicity (Daphnia):
	Acute Toxicity (Algae):

# **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

## **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT:

NOT REGULATED

IATA:

NOT REGULATED

## **SECTION 15: REGULATORY INFORMATION**

#### INVENTORY STATUS

U.S. EPA TSCA:

This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL:

This product contains a component that is not on the DSL. If you are

the importer of this product into Canada, contact H.B. Fuller for

chemical tracking and notification information.

EUROPEAN REACH:

As a result of the introduction of REACH into Europe, this product

cannot be imported into Europe unless the REACH requirements are

met.

AUSTRALIA AICS:

This product is in compliance with the Australian Inventory of

Chemical Substances requirements.

KOREAN TCCL:

This product is in compliance with the Korean Existing Chemicals List



## CERAMIC TILE ADHESIVE 101 839241PM

#### SAFETY DATA SHEET

requirements.

PHILIPPINES:

This product is in compliance with the Philippine Inventory of

Chemicals and Chemical Substances requirements.

CHINA IECSC INVENTORY:

This product is in compliance with the Inventory of Existing Chemical

Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

## FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name CAS# %

#### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to

cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	1 - 5
Formaldehyde	(Carcinogen)	50-00-0	< 10 ppm
Ethyl acrylate	(Carcinogen)	140-88-5	< 10 ppm
Nickel	(Carcinogen)		< 10 ppm
Lead compounds	(Carcinogen)		< 10 ppm
Cobalt	(Carcinogen)		< 10 ppm
Arsenic compounds (inorganic)	(Carcinogen)		< 10 ppm
Methanol	(Developmental toxin)	67-56-1	< 10 ppm

## Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's.

#### **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE:

05-27-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842



# CERAMIC TILE ADHESIVE 101 839241PM

#### SAFETY DATA SHEET

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

# **Product Data Sheet**

# GH-57 Universal Wallpaper Paste

Product Numbers: 209864, 209861

Base: Synthetic Polymer

**General Properties:** Universal Wallpaper Paste makes hanging wallpaper easy. This paste may be used on all surfaces except for poor quality latex paint.

· For all wallpaper

· Longer open time & more slip

Maximum adhesion

Eliminates messy water tray

Hangs up to 4 double rolls

**Recommended Uses:** For hanging over wallcovering or painted surfaces.

**Not Recommended For:** Bare Drywall, extremely rough surfaces such as concrete block, stucco, and other rough surfaces.

Non-Compatible Coatings: Teflon or Tedlar Type

Surfaces

# **SPECIFICATION DATA**

Percent Solids: Approximately 14%

Coverage: Approx. 250 square feet per gallon

Viscosity: Approximately 14,000 cps

**Drying Time:** Drying time will vary depending on the temperature, ventilation and humidity of the room.

Storage: Avoid freezing; keep in cool, dry place.

# LIMITED WARRANTY

Golden Harvest warrants that it will replace this product free of charge if within 12 months of manufacture it is found defective in material or workmanship. This warranty is in lieu of any other. The exclusive remedy is limited to the replacement of the product and Golden Harvest disclaims all liability for consequential, punitive and special damages. Conditions of use are beyond our control.

Roman Decorating Products • Calumet City, Illinois Questions? Call1-800-488-6117. www.romandecoratingproducts.com





# **APPLICATION INSTRUCTIONS**

Surface Preparation: Surface must be free from grease and other residues, dry, smooth and structurally sound. Check surfaces for loose wallcoverings. Repair all unsound surfaces. Before proceeding with any unusual conditions, consult your adhesive or wallcovering supplier. To check for poor quality latex paint, cut an "x" in the wall and apply clear tape over it. Remove quickly, if there is paint on the tape, you need to prime with a Roman® Primer.

Tinting: N/A

Dilution: Do not dilute.

**Application Method:** Use only when the room temperature is above 50°F. Apply an even coat covering the entire surface.

**Drying Time:** Drying time between two vinyls will vary depending on the temperature, ventilation and humidity of the room.

Clean-Up: Before the paste dries, remove excess with warm, clean water. Additional effort may be required if the paste is allowed to contact the surface of embossed or textured vinyls. Paste can be difficult to clean up after it is dry.

WARNING-Roman Decorating Products LLC does not endorse the use of any product in an installation that does not meet a Class A fire rating or any applicable code. Testing by a certified laboratory should be conducted to verify the installation meets a Class A fire rating and to guarantee compliance with all applicable codes. Specifically, if a Roman product is to hang wallpaper over existing wallpaper, it is unlikely to meet these standards.

# **CAUTION**

Do not freeze. Do not take internally. In case of ingestion, seek medical attention. Avoid contact with skin and eyes. Use of skin and eye protection is recommended at all times. If contact with eye occurs, flush with water for 15 minutes. If skin contact occurs, wash with soap and water. Seek medical attention if rash or other sym toms occur. Do not mix with other chemicals. Use in a well ventilated work area. Close container after each use. Keep out of reach of children.

# GOLDEN HARVEST UNIVERSAL WALLPAPER PASTE AND GOLDEN HARVEST UNIVERSAL BORDER PASTE GH-57

Section 1

Manufacturer's Name: Roman Decorating Products

824 State Street

Calumet City, Illinois 60409

Emergency Assistance: 1-800-488-6117

HMIS Hazard Rating:

FIRE=0

Least=0

HEALTH=1

Slight=1

REACTIVITY=1

Moderate=2

High=3

PERSONAL PROTECTION=B

Extreme=4

Reviewed: January 1, 2011

Trade name and Synonyms: GOLDEN HARVEST UNIVERSAL WALLPAPER PASTE AND GOLDEN HARVEST UNIVERSAL BORDER PASTE- GH-57

Chemical Name and Synonyms: Copolymer emulsion adhesive

Chemical Family: Synthetic resin emulsion.

Section 2- Ingredients/Identity Information

CAS No.

Chemical Name(s) OSHA PEL

ACGIHTLV max %

No Hazardous Ingredients

Section 3-Physical/Chemical Characteristics

Appearance and Odor: Opaque white heavy liquid, mild acrid odor

Specific Gravity(water=1): 1.00 Percent Solids by Weight: 10-12

by Volume: 11-12

Solubility in Water: Miscible in all proportions Boiling Point: 212F

Vapor Density: Same as water Vapor Pressure: Same as water Evaporation Point: Same as water

Melting Point: n.a.

Volatile Organic Compounds(VOC,less water): 230 g/l (1.90 lb/gal)

VOC as a percent of the product: 2.5

Section 4-Fire and Explosion Hazard Data

Flash Point(methods used) n.a.

Extinguishing Methods:

Special Fire Fighting Procedures:

Self contained breathing apparatus should be worn in fighting all fires involving general chemicals.

Unusual Fire and Explosion Hazards: None

Section 5-Health Hazard Data

IARC:no Carcinogenicity: NTP:no OSHA regulated: no

Overexposure-Under current OSHA criteria this product is considered non-hazardous.

**Emergency First Aid Procedures** 

Eyes- Flush with water for 15 minutes, seek medical attention.

Skin-Wash from skin at first opportunity.

Inhalation- No hazardous volatiles

Ingestion- Give water to drink if conscious, seek medical attention.

Section 6-Reactivity Data

This product is stable and compatible with all compounds that are compatible with water and water solutions. azardous polymerization does not occur.

# GOLDEN HARVEST UNIVERSAL WALLPAPER PASTE AND GOLDEN HARVEST UNIVERSAL BORDER PASTE-GH-57

# Section 7-Precautions for Safe Handling and Use

Steps to be taken in case the product is released or spilled:

Small spills of 1-2 gallons or less may be diluted 50:1 with water and washed down the drain.

Large spills should be recovered as much as possible and disposed of as non-hazardous liquid waste. Remaining residues can be flushed away as in "small spill" procedure. Consult Federal, State and Local regulations. Product residues may pose a slip hazard; personnel should be careful during clean-up.

## **Section 8-Control Measures**

Respiratory protection is not usually required, however any room where this product is used should have good ventilation, i.e., open windows, exhaust fans, etc. A good, normal precaution is to wear protective gloves and glasses. No other protection equipment is necessary.

## Section 9- Special Precautions

Store at moderate temperatures (50-100 F). Protect from freezing. Keep out of the reach of children. Keep container closed when not in use.

#### SUPPLEMENTAL INFORMATION

Waste Disposal

This product can be handled as a non-hazardous industrial waste.

# REGULATORY INFORMATION

**Workplace Classifications** 

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

This product is not a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

## **Transportation Classifications**

US DOT Shipping Class --- 60
US DOT Description --- Adhesive Paste NOI

## Emergency Planning and Community Right to Know (SARA Title 3)

Section 311/312 Categorizations (40CFR 370)

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Section 313 Information (40CFR 372)

This product does not contain a chemical which is listed in Section 313 above de minimis concentrations.

# **CERCLA Information (40CFR 302.4)**

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act, Title III Section 304.

## **RCRA** Information

When this product becomes a waste, it is classified as a

non-hazardous waste under criteria of the Resource Conservation and Recovery Act (40CFR 261).

# **Chemical Control Law Status**

All components of this product are listed on the US-EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

All components of this product are listed on the Canadian

Environmental Protection Act Domestic Substances List CEPA-DSL).

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# Safety Data Sheet

24 Hour Emergency Phone Numbers Medical/Poison Control:

In U.S.: Call 1-800-222-1222

Outside U.S.: Call your local poison control center

Transportation/National Response Center:

1-800-535-5053 1-352-323-3500

NOTE: The National ResponseCenter emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

# 1. Identification

This Material Safety Data Sheet is available in American Spanish upon request. Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:

Weldwood Original Contact Cement

Revision Date:

6/19/2015

Product UPC Number:

00271, 00272, 00273

Supercedes Date:

7/18/2013

Product Use/Class:

Contact Adhesive

SDS No:

00030503001

Manufacturer:

DAP Products Inc.

2400 Boston Street Suite 200 Baltimore, MD 21224-4723

888-327-8477 (non - emergency matters)

Preparer:

Regulatory Department

## 2. Hazards Identification

EMERGENCY OVERVIEW: DANGER!Flammable liquid and vapor. Vapors may cause flash fire or explosion. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Keep container closed and away from heat, sparks, and open flame. Store away from caustics and oxidizers. Avoid breathing vapor. Avoid skin and eye contact. Use only with adequate ventilation. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Irritating to eyes, respiratory system and skin. Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. May affect the brain or nervous system causing dizziness, headache or nausea.

## **GHS Classification**

Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Carc. 1B, Eye Irrit. 2, Flam. Liq. 2, Muta. 1B, Skin Irrit. 2, STOT RE 2, STOT SE 3 NE, STOT SE 3 RTI

# Symbol(s) of Product







#### Signal Word

Danger

#### **GHS HAZARD STATEMENTS**

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects. Classified as mutagenic Category 1 if one ingredient is present at or above 0.1% Applies to liquids, Solids (w/w units) and gases (v/v). The substance may also have its own exposure limit. Routes of exposure are dependent on ingredient form.
Carcinogenicity, category 1B	H350	May cause cancer. Classified as carcinogenic Category 1 on the basis of epidemiological and/or animal data. Mixtures are classified as carcinogenic when at least 1 ingredient has been classified as carcinogenic and is present at 0.1% or above Routes of exposure are dependent on ingredient form.
STOT, repeated exposure, category 2	H373	May cause damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through prolonged or repeated exposure <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state></or>

# **GHS LABEL PRECAUTIONARY STATEMENTS**

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.

P302+P352 Use personal protective equipment as required.

IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

# **GHS SDS PRECAUTIONARY STATEMENTS**

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P270 Do no eat, drink or smoke when using this product.

# 3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. % GHS Symbols	GHS Statements
Toluene	108-88-3	50-75 GHS02-GHS03-	H225-270-302-304-315-332-335
		GHS07-GHS08	-336-373
Methyl ethyl ketone (MEK)	78-93-3	10-25 GHS02-GHS03-	H225-270-319-332-336
		GHS07	
Light aliphatic solvent naphtha	64742-89-8	2.5-10 GHS03-GHS06-	H270-304-331-340-350
		GHS08	
n-Heptane	142-82-5	2.5-10 GHS02-GHS03-	H225-270-304-315-336
		GHS07-GHS08	
Magnesium oxide fume	1309-48-4	1.0-2.5 GHS03	H270

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

# 4. First-aid Measures

FIRST AID - INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. NOTE: Only trained personnel should administer artificial respiration or give oxygen.

FIRST AID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. To remove from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

FIRST AID - EYE CONTACT: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

# 5. Fire-fighting Measures

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Eliminate sources of ignition: heat, electrical equipment, sparks and flames. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Vapors may form explosive mixtures with air. Containers may explode if exposed to extreme heat. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces. Cool fire-exposed containers using water spray.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam

# 6. Accidental Release Measures

**ENVIRONMENTAL MEASURES:** No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: NOTE: Review fire hazards before proceeding with clean up. Immediately eliminate sources of ignition. Keep people away from and upwind of spill/leak. Scrape up dried material and place into containers. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes.

# Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDREN!DO NOT TAKE INTERNALLY. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. Provide adequate ventilation. Avoid heat, sparks and open flames. Wear appropriate personal protection. Avoid breathing vapor and contact with eyes, skin and clothing. Use in well ventilated area. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion. Wash thoroughly after handling. Do not use in areas where static sparks may be generated. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety

officer) to determine ways to minimize impact.

STORAGE: Store away from sources of ignition and heat. Do not store at temperatures above 120 degrees F. Store containers away a excessive heat and freezing. Store away from caustics and oxidizers. Keep containers tightly closed.

# xposure Controls/Personal Protection ع

## Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Toluene Methyl ethyl ketone (MEK)	20 ppm TWA 200 ppm TWA	N.E. 300 ppm STEL	200 ppm TWA 200 ppm TWA, 590	300 ppm Ceiling
weary early kelone (WEA)	200 ppin 1 447.	300 pp/// 01/LL	mg/m3 TWA	, N.L.
Light aliphatic solvent naphtha	N.E.	N.E.	N.E.	N.E.
n-Heptane	400 ppm TWA Heptane, all isomers	500 ppm STEL Heptane, all isomers	500 ppm TWA, 2000 mg/m3 TWA	N.E.
Magnesium oxide fume	10 mg/m3 TWA inhalable fraction	N.E.	15 mg/m3 TWA fume, total particulate	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

#### Personal Protection



RESPIRATORY PROTECTION: A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear and appropriate, properly fitted respirator (NIOSH approved) during and after application. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.



SKIN PROTECTION: Solvent-resistant gloves.



EYE PROTECTION: Goggles or safety glasses with side shields.



OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.



HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use.

# 9. Physical and Chemical Properties

Appearance: Tan Physical State: Liquid

Odor: Strong Solvent Odor Threshold: Not Established Density, g/cm3: 0.88 - 0.88pH: Not Applicable Freeze Point, °C: Not Established Viscosity (mPa.s): Not Established Solubility in Water: Not Established Partition Coeff., n-octanol/water: Not Established

Decomposition Temperature, °C: Not Established Explosive Limits, %: N.I. - N.I.

Boiling Range, °C: 76.7 - 82.2 Auto-Ignition Temperature, °C Not Established

Minimum Flash Point, °C: -6.1 Vapor Pressure, mmHg: No Information

Evaporation Rate: Faster Than n-Butyl Acetate Flash Method: Seta Closed Cup

Vapor Density: Faster Than n-Butyl Acetate Flash Method: Seta Closed

Vapor Density: Heavier Than Air

Combustibility: Does not support combustion

(See "Other information" Section for abbreviation legend)

(If product is an aerosol, the flash point stated above is that of the propellant.)

# 10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** Keep away from open flames, hot surfaces and sources of ignition. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Avoid contact with skin, eyes and clothing. Do not smoke.

**INCOMPATIBILITY:** Open flames, hot surfaces and sources of ignition. Keep away from strong oxidizing agents, heat and open flames. Exothermic reaction with strong acids. Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

# 11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation of vapors may cause irritation of the nose, throat, lungs and respiratory tract. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Harmful if absorbed through the skin. May cause skin irritation. Prolonged and repeated skin contact may cause dermatitis, drying and defatting due to the solvent properties.

EFFECT OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

**EFFECT OF OVEREXPOSURE - INGESTION:** Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause gastrointestinal disturbances with dizziness and central nervous system depression. If ingested, may cause depressed respiration. Aspiration hazard if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

**CARCINOGENICITY:** No Information

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Skin Contact

## **Acute Toxicity Values**

The acute effects of this product have not been tested. Data on individual components are tabulated below

CAS-No.	Chemical Name	<u>Oral LD50</u>	Dermal LD50	Vapor LC50
108-88-3	Toluene	636 mg/kg Rat	8390 mg/kg Rabbit	12.5 mg/L Rat
78-93-3	Methyl ethyl ketone (MEK)	>2737 mg/kg Rat	>5000 mg/kg Rabbit	23.5 mg/L Rat

64742-89-8 Light aliphatic solvent naphtha 5000 mk/kg Mouse 3000 mg/kg Rabbit > 4.96 mg/L Rat

142-82-5 n-Heptane 5000 mg/kg Rat 3000 mg/kg Rabbit > 29.29 mg/L Rat

1309-48-4 Magnesium oxide fume >2000 mg/kg >2000 mg/kg >20 mg/L

N.l. = No Information

# 12. Ecological Information.

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

# 13. Disposal Information

DISPOSAL INFORMATION: Residues and spilled material are hazardous waste due to ignitability. Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste. Liquids cannot be disposed of in a landfill. Do not flush into surface water or sanitary sewer system. Do not empty into drains. Do not re-use empty containers. The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture, or weld on or near this container.

# 14. Transport Information

#### SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT UN/NA Number: UN1133

DOT Proper Shipping Name: Adhesives, containing a flammable liquid.

DOT Technical Name: N.A.

DOT Hazard Class: 3

Hazard SubClass: N.A.

Packing Group: III

# 15. Regulatory Information

# U.S. Federal Regulations:

# CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Toluene108-88-3

# TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

# CALIFORNIA PROPOSITION 65 CARCINOGENS

WARNING: This product contains chemicals known to the State of California to cause cancer.

# CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

# International Regulations: As follows -

# **CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class

No Information

# 16. Other Information

Revision Date:

6/19/2015

Supersedes Date:

7/18/2013

Reason for revision:

HazCom2012/GHS Conversion

Datasheet produced by:

Regulatory Department

**HMIS Ratings:** 

Health:	2	Flammability:	3	Reactivity:	0	Personal Protection:	X

VOC Less Water Less Exempt Solvent, g/L705.5

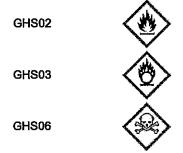
VOC Material, g/L:704

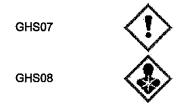
VOC as Defined by California Consumer Product Regulation, Wt/Wt%:80.4

# Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H270	May cause or intensify fire; oxidiser.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects <state conclusively="" exposure="" if="" is="" it="" no="" of="" of<="" other="" proven="" route="" routes="" td="" that=""></state>
	exposure cause the hazard>.
H350	May cause cancer.
H373	May cause damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through prolonged or repeated exposure <state cause="" conclusively="" exposure="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" td="" that="" the<=""></state></or>
	hazard>.

# Icons for GHS Pictograms shown in Section 3 describing each ingredient:





Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

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PRODUCT NAME: FlorCraft Carpet Seam Sealer HMIS CODES: HFRP **PRODUCT CODE: 31D** 100B MANUFACTURERED FOR: TILE PERFECT ADDRESS: 1105 SOUTH FRONTENAC ST. AURORA, IL 60504 **EMERGENCY PHONE:** 800-424-9300 DATE REVISED: 05/17/2004 DATE PRINTED: 09/29/2005 **INFORMATION PHONE:** 630-978-7766 NAME OF PREPARER: Michelle Kascak ====== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION = VAPOR PRESSURE WEIGHT COMPONENTS CAS NUMBER MM HG @ TEMP PERCENT This material does not contain any toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. **BOILING POINT:** 212 Degrees F. SPECIFIC GRAVITY (H2O=1): 1.07 VAPOR DENSITY: As Water **EVAPORATION RATE: NA SOLUBILITY IN WATER:** Miscible **VOLATILITY/VOL(%):** 30.0% - 32.0% APPEARANCE/ODOR: White, milky liquid, sweet odor ==== SECTION IV - FIRE AND EXPLOSION HAZARD DATA ====== FLASH POINT: NA **METHOD USED:** NA FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: NA **UPPER:** NA EXTINGUISHING MEDIA: For dry adhesive, use water or carbon dioxide SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should be equipped with self-contained breathing apparatus to protect against possible irritating fumes. UNUSUAL FIRE AND EXPLOSION HAZARDS: When dried adhesive burns, water, carbond dioxide, carbon monoxide, and smoke are produced. Drums may burst due to steam pressure from extreme temperatures. SECTION V - REACTIVITY DATA STABILITY: Stable **CONDITIONS TO AVOID:** Borax will coagulate. Avoid materials which react with water.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: No data

INCOMPATIBILITY (MATERIALS TO AVOID): See conditions to avoid.

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SECTION VI - HEALTH HAZARD DATA

3 OF ENTRY: Inhalation, ingestion and direct dermal exposure

**HEALTH HAZARDS:** Inhalation: Adverse health effects from vapors in poorly ventilated areas; may include irritation of the mucous membranes of the nose, throat, respiratory tract and symptoms of headache and nausea.

SIGNS & SYMPTOMS OF EXPOSURE: None expected but excessive inhalation may cause nausea and dizziness.

**ACUTE EFFECTS OF OVEREXPOSURE:** Headaches, dizziness, eye, nose, throat and lung distress from vapors. Eye contact can cause severe eye irritation, redness, tearing, blurred vision; can cause respiratory irritation and gastric disturbance.

CHRONIC EFFECTS OF OVER EXPOSURE: Prolonged or repeated skin contact may cause irritation and inflammation.

CARCINOGENICITY: NTP: No known effect

IARC MONOGRAPHS: No

**OSHA REGULATED:** No

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known

#### EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with large amounts of water lifting eyelids occasionally until irritation subsides. If irritation develops or persist, GET IMMEDIATE ATTENTION.

SKIN: Wash with soap and water. If irritation develops or persist, SEE PHYSICIAN IMMEDIATELY.

INHALATION: Should inhalation problems occur, move victim to fresh air. Aid in breathing if necessary.

INGESTION: Small amounts are not believed to produce adverse health effects. Larger amounts (at least several ounces) should be removed from the stomach by induced vomiting or aspiration.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =

# STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Contain spill and absorb on inert material and place in containers. Material may also be coagulated with borax for removal.

## HAZARDOUS SUBSTANCE SUPERFUND: NA

WASTE DISPOSAL METHOD: Dispose of as per local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in original sealed containers. Protect from temperature extremes. Freezing will damage material

OTHER PRECAUTIONS: Supply sufficient ventilation.

SECTION VIII - CONTROL MEASURES -----

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RESPIRATORY PROTECTION: NA

**VENTILATION:** Local exhaust; Use with adequate ventilation. Open doors and windows. Utilize other means to insure fresh air entry and exhaust.

**PROTECTIVE CLOTHES/GLOVES:** Protective gloves are recommended.

EYE PROTECTION: Safety goggles required

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required

**WORK/HYGENIC PRACTICES:** Avoid prolonged or repeated skin contact, or wear impervious protective clothing. Thorough washing of skin after work and before eating, drinking, smoking, or using toilet facilities. Wash clothing after use.

SECTION IX - SHIPPING INFORMATION

D.O.T. PROPER SHIPPING NAME: Adhesives

HAZARDOUS SUBSTANCE 49CFR CERCLA: NA

**HAZARD CODE: NA** 

D.O.T. HAZARD CLASS: Not Regulated

D.O.T. LABELS REQUIRED: NA

D.O.T. PLACARDS REQUIRED: NA

POISON CONSTITUENT: NA

**BILL OF LADING DESCRIPTION: Adhesives** 

CC NO: NA

UN/NA CODE: Not-Regulated

CHEMICAL EMERGENCY: CHEMTREC 24 HOURS: 1-800-424-9300

TSCA INVENTORY STATUS: Listed on Inventory: Yes

## **PROPOSITION 65:**

If your business resides in the state of California or if you supply products directly or indirectly into California, we are providing this information to you pursuant to the California Safe Drinking Water and Toxic Act of 1986 (commonly known as proposition 65). This law requires, in part, that "no person in the course of doing business shall knowingly and intentionally expose any individual to chemicals known to the state to cause cancer or reproductive toxicity without first exempt from the warning requirements "an exposure for which the person responsible can show that the exposure poses no significant risk..." (Section 25249.10).

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There may be small, perhaps undetectable amounts, of other naturally occuring chemicals that are known to the State of California to cause cancer, birth defects or other reporductive harm. This warning is provided in the absence of definitive testing to prove that these risks do not exist. These amounts are typical quantities and may be below the Proposition 65 level of concern, or could even be zero.

OSHA Standard 29CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you and it is your legal duty to, make all information in this material safety data sheet available to your employees.

The Following ingredients are considered to be classified as per OSHA HazardCommunication Standard (29CFR1910.1200):

NA	
SECTION X - DISCLAIMER INFOMATION	

\*\*\*THE CRITERIA FOR LISTING COMPONENTS IN THE HAZARDOUS INGREDIENTS SECTIONS IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1% OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0% OR GREATED.

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, TILE PERFECT MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

The information contained within the MSDS is considered propriety and is a trade secret. Unauthorized distribution or duplication of this information is prohibited.



# Safety Data Sheet

Revision Date: 06/03/2015

# SECTION 1: Identification and Company Details

**Product Name:** 

Latex Seam Sealer

**Product Code:** 

AC17

Manufacturer/ Supplier:

Roberts Consolidated Industries, Inc.

Address:

300 Cross Plains Blvd.

Dalton, GA 30721

Emergency Phone:

(800) 424-9300 (24-hour Response / CHEMTREC)

Product Information:

(706) 277-5294

Recommended Use:

Adhesive

#### SECTION 2: Hazard(s) Identification

Classification of the

substance or mixture:

This product is not classified as hazardous under GHS criteria.

# SECTION 3: Composition / Information on Ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, or have been assigned a workplace exposure limit and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

# SECTION 4: First-Aid Measures

Inhalation:

Move victim to fresh air. Consult physician if necessary.

**Skin Contact:** 

Wash with soap and water. Remove contaminated clothing. Consult physician if necessary. Flush with copious amounts of water for at least 15 minutes. Consult physician if necessary.

Eye Contact:

Do not induce vomiting. Wash mouth with water. Consult physician.

Ingestion: Note to Physician:

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation. Skin: Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn.

Ingestion: Treat symptomatically. There is no specific antidote. Inducing youting is contraindicated.

Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. Respiratory: Treatment is essentially symptomatic.

Remove individual with symptoms from exposure and assist in breathing if necessary.

## SECTION 5: Fire-Fighting Measures

Extinguishing Media:

This product is not flammable. Use fire- extinguishing media appropriate for surrounding materials.

Hazardous Combustion Products: No particular hazards known.

Protection of Firefighters: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

SECTION 6: Accidental Release Measures

Personal Precautions: Use protective gloves, goggles and suitable protective clothing.

Environmental Precautions: Do not allow product to get into drains, soil, or surface water.

Methods of Clean-up: Small spillages: Absorb with sand or other inert absorbent. Large spillages: Dam and absorb. Collect

spillage in containers, seal securely and deliver for disposal according to local regulations. Wear

necessary protective equipment.

SECTION 7: Handling and Storage

Handling Precautions: Provide good ventilation. Do not use in confined spaces without adequate ventilation and/or respirator.

Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product.

Storage: Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in closed original

container at temperatures between 5°Cand 30°C/ 40°F and 86°F. Protect from freezing and direct sunlight.

SECTION 8: Exposure Control / Personal Protection

Exposure Guidelines: Not determined

Engineering Controls: Provide adequate ventilation.

Personal Protective Equipment:

**Skin Protection** - Permeation resistant gloves (butyl rubber, nitrile rubber, PVC or polyvinyl alcohol). **Eye/Face Protection** - Glasses with side shields, chemical splash goggles and/or face shield.

Chemical Name / CAS No.

OSHA Exposure Limits

**ACGIH Exposure Limits** 

**Other Exposure Limits** 

None

# SECTION 9: Physical and Chemical Properties

Appearance: Creamy, off-white liquid

Odor: Slight ammonia odor

Relative Density: 0.9

Odor Threshold: Not available

Solubility: Miscible in water

pH: 10-11

Partition Coefficient: n-octanol/water; Not determined

Melting Point: Not determined
Freezing Point: Not determined
Auto-ignition Temperature: Not determined

Flash Point: Non- flammable > 204 C (400 F) Cleveland Closed Cup

Decomposition Temperature: Not determined
Evaporation Rate: Not determined
Viscosity: Not determined
Flammability (Solid/Gas): Not applicable
Upper/Lower Flammability: Not determined

VOC Content:

<1 g/L

Vapor Pressure:

Not Determined

**Boiling Point:** 

100°C/ 212°F

SECTION 10: Stability and Reactivity

Chemical Stability: Stable under normal temperature conditions and recommended use.

Conditions to Avoid: Excessive heat, direct sunlight and/or frost.

Materials to Avoid: Water, amines, strong bases, and alcohols.

SECTION 11: Toxicological Information

Acute toxicity:

None

Ingestion: Inhalation: Not determined Not determined

Skin Contact:

Not determined.

# SECTION 12: Ecological Information

Mobility and Bioaccumulation Potential: Not determined

Degradation:

Not determined

**Aquatic Toxicity:** 

Not determined

LC50 - 24 hour (Static):

Not determined

# SECTION 13: Disposal Considerations

Disposal:

Dispose of waste and residues in accordance with local authority requirements. Incineration is the preferred

method of disposal.

Wastes or Residues:

Same as above.

# SECTION 14: Transport Information

Road:

DOT Proper Shipping Name: Non-Regulated

DOT Packing Group: N/A

DOT Label: N/A UN Number: N/A

Ocean:

Proper Shipping Name: Non-Regulated

Sea - IMO/IMDG Class: N/A

UN Number: N/A Label: N/A

Packing Group: N/A Marine Pollutant: N/A

EMS: N/A

Air:

Proper Shipping Name: Non-Regulated

Air - ICAO/IATA Class: N/A

UN Number: N/A
Label: N/A
Sub Class: N/A
Packing Group: N/A
Pack Instr. Passenger: N/A
Pack Instr. Cargo: N/A

Status on Substance Lists: The concentrations shown in this document are maximum levels (weight %) to be used for regulations.

TSCA:

The components of this product are contained on the chemical substance inventory list

IARC:

Not carcinogenic

**OSHA PEL's** 

None

Federal EPA:

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA): Requires notification of the national response center of release of quantities of hazardous

substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components

present in this product at level which could require reporting under the statute are:

Chemical Name

CAS Number

% by Weight

RQ

None

None

None

None

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product at level which could require reporting under this statue are:

**Chemical Name** 

**CAS Number** 

% by Weight

RQ

None None

None

None

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known- None

# NJ RTK

1336-21-6 Ammonium hydroxide

#### Pennsylvania RTK

1336-21-6 Ammonium hydroxide

SARA 302 Extremely Hazardous Substances

None

#### Massachusetts RTK

1336-21-6 Ammonium hydroxide

#### **EPA Hazard Classifications:**

Acute	Chronic	Fire	Pressure	Reactive
Hazard	Hazard	Hazard	Hazard	Hazard
No	No	No	No	No

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDSs that are distributed for this material. Components present in this product at level which could require reporting under the statute are: **None** 

Canada DSL:

All components are on the DSL list or exempt.

California Proposition 65: Does not contain any listed chemical to the best of our knowledge.

## SECTION 16: Other Information

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

HMIS RATING: HEALTH-1, FLAMMABILITY-0, REACTIVITY-0, PERSONAL PROTECTION- B.

Prepared by: Roberts Consolidated Product Safety & Regulatory Compliance Group, (706) 277-5294

The information herein is given in good faith, but no warranty expressed or implied is made. Roberts Consolidated urges users of this product to evaluate its suitability and compliance with local regulations as Roberts Consolidated cannot foresee the final use of the product, nor the final location of usage.

Date of issue: 6/03/15

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Franklin International

MATERIAL SAFETY DATA SHEET

MSDS Name: Titebond II Premium Wood Glue

MSDS Number: 5004 Revision Date: 6/14/04

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Titebond II Premium Wood Glue

CAS Number:

none

HMIS Hazard Rating:

Health: 1 Fire: 1 Reactivity: 0

Company Identification:

Franklin International

2020 Bruck Street Columbus OH 43207

Contact:

Franklin Technical Services

Telephone/Fax:

(800) 877-4583 (614) 445-1493

Emergency Phone (24 Hour): Franklin Security

(614) 445-1300

Chemtrec (24 Hour):

(800) 424-9300

Chemtrec International:

(703) 527-3887

Product Class

CROSSLINK POLYVINYL ACETATE

Product Use:

wood glue

Product Code:

5000

Division:

Construction Adhesives & Sealants

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients

CAS Number Percent

Product contains no hazardous ingredients or they are below reportable levels.

OSHA PELs & ACGIH TLVs are listed in Section 8 where applicable.

**SECTION 3 - HAZARD IDENTIFICATION** 

**EMERGENCY OVERVIEW:** 

Cream colored water-based adhesive. Slippery in the wet state.

**ROUTES OF ENTRY:** 

Ingestion:

Yes

Inhalation: Yes

Skin:

Yes

Eye:

Yes

INHALATION:

Vapors and/or aerosols which may be formed at elevated temperature may

be irritating to eyes and respiratory tract.

No reported incidents of adverse health affects resulting from

inhalation of vapors at room temperature.

INGESTION:

No hazard expected in normal industrial use. Ingestion is not a likely route of exposure.

SKIN:

Prolonged or repeated skin contact can cause irritation.

EYE:

Substance may cause moderate eye irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None identified.

CARCINOGENICITY:

IARC: No NTP: No

IA: No

RODUCTIVE TOXICITY:

product has not been evaluated for reproductive toxicity.

# **JTION 4 - FIRST AID MEASURES**

## **INHALATION:**

Remove patient to fresh air, if discomfort persists seek medical attention.

INGESTION:

Call poison control center immediately. Follow their specific instructions. Do not induce vomiting.

SKIN:

Wash with soap and water. Contact a physician if irritation develops or persists.

EYE:

Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention.

# **SECTION 5 - FIRE-FIGHTING MEASURES**

Flammability Class (OSHA) IIIB

Flash Point:

Not Applicable

Explosive Range:

Not Applicable

# **EXTINGUISHING MEDIA:**

Use alcohol foam, carbon dioxide, water spray, or ABC dry chemical when fighting fires involving this product.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon.

FIRE FIGHTING PROCEDURES:

Wear a NIOSH approved self-contained breathing apparatus.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

# CONTAINMENT TECHNIQUES:

Use inert absorbent to dike the spill. Keep away from drains.

# CLEAN-UP:

If possible pump liquid into an approved container or spread absorbent over spill and shovel product/absorbent mixture into an approved container. If product has dried scrape up and place in an approved container.

## SECTION 7 - HANDLING AND STORAGE

## HANDLING:

Empty drums should be completely drained, properly bunged and promptly returned to a reconditioner, or properly disposed of.

Use only in well ventilated area.

STORAGE:

Keep from freezing.

Store at temperatures between 50 F and 90 F.

PRECAUTIONARY STATEMENT:

Keep out of the reach of children.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL

## **ENGINEERING CONTROLS:**

Use local exhaust as needed to maintain occupational exposure limits.

# OTHER:

Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.

## RESPIRATORY PROTECTION:

Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific contaminents. Follow requirements for respiratory protection in OSHA 1910.134.

# EYE PROTECTION:

Chemical splash goggles (ANSI Z87.1 or approved equivalent).

# SKIN PROTECTION:

Where skin contact can occur, wear impervious gloves.

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:

Liquid

Appearance/Color:

cream

Odor:

Mild

Solubility (in water):

Dispersible in water

pH Value:

3.

Boiling Range/Point:

210.øF

**Evaporation Rate:** 

Slower than n-Butyl Acetate

% Volatile:

52.%

Specific Gravity:

1.09

VOC:

 $13.7 \, \text{g/l}$ 

# SECTION 10 - STABILITY AND REACTIVITY

Stability:

This product is stable

Hazardous Polymerization: Hazardous polymerization will not occur

# CONDITIONS TO AVOID:

None.

INCOMPATIBLITY:

Strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon may be released during combustion.

# SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects are not expected as long as good industrial hygeine and safety precautions are followed.

# SECTION 12 - ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects.

## SECTION 13 - DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL:

Disposal of this product must comply with all applicable federal, state and local regulations.

# CONTAINER DISPOSAL:

Disposal of this container should comply with all applicable federal, state and local regulations.

## SECTION 14 - TRANSPORT INFORMATION

UN Number

none

UN Pack Group

N/A

**UN Class** 

Nonhaz

ICAO/IATA Class

Nonhazardous

IMDG Class

Nonhazardous

Shipping Name

Nonhazardous

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

# **SECTION 15 - REGULATORY INFORMATION**

# TSCA (Toxic Substances Control Act Inventory):

All components of this product are listed on the TSCA inventory except as exempted.

# PENNSYLVANIA:

Special hazardous components required to be listed at .01% or more:

formaldehyde; formaldehyde; 50-00-0

Non-hazardous components required to be listed at 3% or more: polyvinyl acetate emulsion 113408-93-8; polyvinyl alcohol 25213-24-5 NEW JERSEY:

polyvinyl acetate emulsion 113408-93-8; water 7732-18-5; aluminum chloride 7784-13-6; polyvinyl alcohol 25213-24-5; n-methylolacrylamide 924-42-5

# **SECTION 16 - OTHER INFORMATION**

# DISCLAIMER:

While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

# 1. Product and Company Identification

Material name **G5** Epoxy Adhesive

Version # 01

Revision date 06-09-2010 CAS# Mixture

**Product Code** G5

Product use Concrete anchoring adhesive.

Manufacturer/Supplier ITW Red Head

2171 Executive Drive, Suite 100

Addison, IL 60101 US

Telephone Number: (630) 350-0370 Contact Person: Andrew Rourke

Emergency CHEMTREC: (800) 424-9300

## 2. Hazards Identification

Physical state Solid. **Appearance** Paste. **Emergency overview** DANGER!

Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful if inhaled, absorbed through skin, or swallowed. May cause sensitization by skin contact. Prolonged

exposure may cause chronic effects.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation, Ingestion, Skin contact, Eye contact,

Eyes Causes eye burns. Risk of corneal damage. Contact may cause irritation, redness, tearing,

blurred vision and/or burns.

Skin Causes skin burns. Harmful if absorbed through the skin. May cause sensitization by skin contact.

Contact may cause irritation, redness and/or drying.

Inhalation Harmful if inhaled. Causes severe respiratory tract irritation. Vapors irritate the respiratory system,

and may cause coughing and difficulties in breathing.

Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, Ingestion

esophagus and possibly the digestive tract.

Target organs Eyes. Skin. Respiratory system. Lungs.

Chronic effects Can cause kidney, liver, lung and central nervous system damage. Can cause adverse

reproductive effects - such as birth defects, miscarriages, or infertility. Contains a component that is listed as an IARC 1 (Known Human Carcinogen), a NTP Known Carcinogen and an ACGIH A2 (Suspected Human Carcinogen). Overexposure can cause lung damage - pulmonary toxin.

Potential environmental effects

The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

## 3. Composition / Information on Ingredients

Components	CAS#	Percent	
Bisphenol A Epoxy Resin (Part A)	25068-38-6	50 - 99	
Amine Blend (Part B)	Trade Secret	Trade Secret	

# 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Get medical attention immediately. Wash clothing separately before reuse.

Destroy or thoroughly clean contaminated shoes.

G5 Epoxy Adhesive

CPH MSDS NA

4424 Version #: 01 Revision date: 06-09-2010 Print date: 06-09-2010

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that

stomach content does not get into the lungs. Never give anything by mouth to a victim who is

unconscious or is having convulsions. Get medical attention immediately.

Notes to physician Keep victim under observation. In case of shortness of breath, give oxygen. Symptoms may be

delayed.

General advice Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves. Show this safety data

sheet to the doctor in attendance. Wash contaminated clothing before re-use.

## 5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria. Material may burn but not ignite readily.

Extinguishing media

Suitable extinguishing

media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Protection of firefighters

Protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage.

pecial protective equipment

or fire-fighters pecific methods Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

In the event of fire and/or explosion do not breathe fumes.

lazardous combustion

roducts

Carbon monoxide. Carbon Dioxide. Nitrogen oxides (NOx). Hydrogen chloride. Silicon oxides.

### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Local authorities should be advised if significant spillages

cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Collect

spillage. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous

waste. Should not be released into the environment.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow

material to contaminate ground water system.

Other information Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

Handling

Wear personal protective equipment. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged exposure. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the

Storage

Keep container tightly closed. For maximum shelf life, store between 4.4°C (40°F) to 26.7°C (80°F). Do not store above 43.3°C (110°F). Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

### 8. Exposure Controls / Personal Protection

### Occupational exposure limits

**ACGIH** 

Components	Туре	Value	Form
Amine Blend (Part B) (Trade Secret)	Ceiling TWA	0.1 mg/m3 0.025 mg/m3 5 ppm	Amine Blend Ingredient 2 Amine Blend Ingredient Amine Blend Ingredient

Components	Type	Value	Form
Amine Blend (Part B) (Trade Secret)	PEL TWA	5 ppm 0.42 mg/m3	Amine Blend Ingredient : Amine Blend Ingredient : (total dust)
		0.14 mg/m3	Amine Blend Ingredient ( (respirable)
Canada - Alberta			
Components	Туре	Value	Form
Amine Blend (Part B) (Trade Secret)	Ceiling TWA	0.1 mg/m3 0.025 mg/m3 5 ppm	Amine Blend Ingredient 2 Amine Blend Ingredient 3 Amine Blend Ingredient 3
Canada - British Columbia			
Components	Type	Value	Form
Amine Blend (Part B) (Trade Secret)	Ceiling	0.1 mg/m3	Amine Blend Ingredient 2
	TWA	0.025 mg/m3	Amine Blend Ingredient
		5 ppm	Amine Blend Ingredient
Canada - Ontario			
Components	Туре	Value	Form
Amine Blend (Part B) (Trade Secret)	Ceiling	0.1 mg/m3	Amine Blend Ingredient
	TWA	0.1 mg/m3	Amine Blend Ingredient
		5 ppm	Amine Blend Ingredient
Canada - Quebec			
Components	Туре	Value	Form
Amine Blend (Part B) (Trade Secret)	Ceiling	0.1 mg/m3	Amine Blend Ingredient:
	STEL	0.1 mg/m3	Amine Blend Ingredient
		5 ppm	Amine Blend Ingredient
Mexico	_		
Components	Туре	Value	Form
Amine Blend (Part B) (Trade Secret)	Ceiling	0.1 mg/m3	Amine Blend Ingredient
	STEL TWA	10 ppm	Amine Blend Ingredient
	IVVA	5 ppm 0.1 mg/m3	Amine Blend Ingredient Amine Blend Ingredient
		o. i iligatio	Amine biena ingrealent

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Eye / face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure.

Contact glove manufacturer for specific information.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

General hygiene considerations

Odor threshold

Avoid contact with eyes. Avoid contact with skin. Provide eyewash station and safety shower. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and

safety practice.

Not available.

## 9. Physical & Chemical Properties

**Appearance** Paste. Color Beige/Gray.

Odor Characteristic.

Solid. Physical state Form Paste.

Not available. рΗ Not available. **Melting point** Freezing point Not available.

**Boiling point** > 212 °F (> 100 °C) Part B > 400 °F (> 204.4 °C) Part A

G5 Epoxy Adhesive 4424 Version #: 01 Revision date: 06-09-2010 Print date: 06-09-2010 Flash point

> 212 °F (> 100 °C)

**Evaporation rate** 

Not available.

Flammability

Not available.

% by volume

Flammability limits in air, upper, Not available.

Flammability limits in air, lower,

% by volume

Not available.

Vapor pressure

Not available. Not available.

Vapor density Specific gravity

Not available.

Solubility (water)

None.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available. Not available.

Decomposition temperature

1.2 g/cm3 Part A

Density

1.7 g/cm3 Part B

## 10. Chemical Stability & Reactivity Information

Chemical stability

Stable at normal conditions.

Conditions to avoid

Elevated temperatures.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx). Silicon oxides. Hydrogen chloride.

Possibility of hazardous

reactions

Will not occur.

## 11. Toxicological Information

Local effects

Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful if inhaled,

absorbed through skin, or swallowed. May cause sensitization by skin contact.

Sensitization

May cause an allergic skin reaction.

**Chronic effects** 

Can cause kidney, liver, lung and central nervous system damage. Overexposure can cause lung

damage.

Carcinogenicity

Contains a component that is listed as an IARC 1 (Known Human Carcinogen), a NTP Known

Carcinogen and an ACGIH A2 (Suspected Human Carcinogen).

Mutagenicity

This product is not expected to cause mutagenic or genotoxic effects.

Neurological effects

May cause central nervous system disorder (e.g., narcosis involving a loss of coordination,

weakness, fatigue) and/or damage.

Reproductive effects

Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility.

Teratogenicity

Components in this product have been shown to cause teratogenic effects in laboratory animals.

**Further information** 

Symptoms may be delayed.

### 12. Ecological Information

**Ecotoxicity** 

Contains a substance which causes risk of hazardous effects to the environment.

**Environmental effects** 

The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability

Not available.

Bioaccumulation / Accumulation

No data available.

Partition coefficient (n-octanol/water)

G5 Epoxy Adhesive

Not available.

Mobility in environmental

No data available.

media

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## 13. Disposal Considerations

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container.

## 14. Transport Information

**Product Specific Note:** 

This product meets the limited quantities exception requirements for the below listed transportation agencies. Under DOT and TDG regulations, this product may be reclassified as a Consumer Commodity (ORM-D). Please see the specific regulations for the shipping and packaging requirements.

#### DOT

Basic shipping requirements:

Proper shipping name

Consumer commodity

Hazard class

ORM-D

Subsidiary hazard class

None

Labels required

None

Additional information:

Packaging exceptions

156, 306

Packaging non bulk

156, 306

Packaging bulk

None

#### **IATA**

Basic shipping requirements:

**UN number** 

2735

Proper shipping name

Amines, liquid, corrosive, n.o.s. (Amine Blend (Part B))

Hazard class

8

Packing group

111

#### IMDG

Basic shipping requirements:

**UN** number

2735

Proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S. (Amine Blend (Part B))

Hazard class

8

Packing group

Ш

EmS No.

F-A, S-B

#### **TDG**

Basic shipping requirements:

Proper shipping name

Consumer commodity

Hazard class

ORM-D

Subsidiary hazard class

None

Labels required

None

Additional information:

Packaging exceptions

156, 306

Packaging non bulk

Packaging bulk

156, 306





## 15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

### CERCLA (Superfund) reportable quantity (lbs)

Amine Blend (Part B) 1000

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

No

chemical

Canadian regulations

**Drug Enforcement Agency** 

(DEA)

Not controlled

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification D2A - Other Toxic Effects-VERY TOXIC

D2B - Other Toxic Effects-TOXIC

E - Corrosive

#### WHMIS labeling





#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada ·	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

State regulations WARNING: This product contains chemicals known to the State of California to cause cancer.

### 16. Other Information

United States & Puerto Rico

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 3\* Flammability: 1

Physical hazard: 0

NFPA ratings Health: 3

Flammability: 1 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

G5 Epoxy Adhesive CPH MSDS NA

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Yes

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## Safety Data Sheet

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Document Group:

23-3000-9

Version Number:

4.00

Issue Date:

05/08/15

Supercedes Date:

05/14/13

## **SECTION 1: Identification**

#### 1.1. Product identifier

3M™ Hi-Strength 90 Cylinder Spray Adhesive, Clear

#### **Product Identification Numbers**

62-4994-8030-9, 62-4994-8150-5, 62-4994-8300-6

#### 1.2. Recommended use and restrictions on use

#### Recommended use

Adhesive, Industrial use

### 1.3. Supplier's details

MANUFACTURER:

3M

DIVISION:

Industrial Adhesives and Tapes Division 3M Center, St. Paul, MN 55144-1000, USA

ADDRESS: Telephone:

1-888-3M HELPS (1-888-364-3577)

#### reconone.

1.4. Emergency telephone number 1-800-364-3577 or (651) 737-6501 (24 hours)

## **SECTION 2: Hazard identification**

#### 2.1. Hazard classification

Flammable Liquid: Category 1.

Serious Eye Damage/Irritation: Category 2A.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

## 2.2. Label elements

Signal word

Danger

#### Symbols

Flame | Exclamation mark | Health Hazard |

## **Pictograms**



#### **Hazard Statements**

Extremely flammable liquid and vapor.

Causes serious eye irritation. May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

Causes damage to organs: cardiovascular system |

### **Precautionary Statements**

#### ention:

away from heat/sparks/open flames/hot surfaces. - No smoking. nd/bond container and receiving equipment. only non-sparking tools.

precautionary measures against static discharge.

ontainer tightly closed.

explosion-proof electrical/ventilating/lighting equipment.

Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

#### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF exposed: Call a POISON CENTER or doctor/physician.

Specific treatment (see Notes to Physician on this label).

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

#### 2.3. Hazards not otherwise classified

None.

## SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Dimethyl Ether	115-10-6	15 - 40 Trade Secret *
Non-Volatile Components	Trade Secret*	10 - 30 Trade Secret *
Pentane	109-66-0	10 - 30 Trade Secret *
Cyclohexane	110-82-7	10 - 30 Trade Secret *
Acetone	67-64-1	10 - 30 Trade Secret *
Isobutane	75-28-5	5 - 10 Trade Secret *
Propane	74-98-6	5 - 10 Trade Secret *

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. Get medical attention.

### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

### **Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

## 4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

#### Hazardous Decomposition or By-Products

Substance	<u>Condition</u>
Aldehydes	During Combustion
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

## 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Pentane	109-66-0	ACGIH	TWA:1000 ppm	-
Pentane	109-66-0	OSHA	TWA:2950 mg/m3(1000 ppm)	
Cyclohexane	110-82-7	ACGIH	TWA:100 ppm	_
Cyclohexane	110-82-7	OSHA	TWA:1050 mg/m3(300 ppm)	
Dimethyl Ether	115-10-6	AIHA	TWA:1880 mg/m3(1000 ppm)	
Dimethyl Ether	115-10-6	CMRG	TWA:1000 ppm	"

Acetone	67-64-1	ACGIH	TWA:500 ppm;STEL:750 ppm	A4: Not class. as human
				carcin
Acetone	67-64-1	OSHA	TWA:2400 mg/m3(1000 ppm)	
Propane	74-98-6	ACGIH	Limit value not established:	
Propane	74-98-6	OSHA	TWA:1800 mg/m3(1000 ppm)	
Isobutane	75-28-5	ACGIH	STEL:1000 ppm	
Natural gas	75-28-5	ACGIH	Limit value not established:	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

### 8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Nitrile Rubber

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

Half facepiece or full facepiece supplied-air respirator

Organic vapor respirators may have short service life.

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

General Physical Form: Liquid

Odor, Color, Grade: clear, solvent odor
Odor threshold No Data Available
pH Not Applicable

## 3MTM Hi-Strength 90 Cylinder Spray Adhesive, Clear 05/08/15

Melting point

Not Applicable

Selling Point

Not Applicable

<=68 °F

Flash Point -50 °F [Test Method: Closed Cup] [Details: Flammable Gas]

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

Not Applicable

1.2 % volume

27 % volume

84.7 psia [@ 68 °F]

>=1.0 [Ref Std: AIR=1]

Density 0.69 g/ml

Specific Gravity 0.69 [Ref Std: WATER=1]

Solubility in Water Ni

Solubility- non-water
Partition coefficient: n-octanol/ water
Autoignition temperature
Decomposition temperature
Viscosity
No Data Available
No Data Available
Not Applicable
Not Applicable

Hazardous Air Pollutants 0 % weight [Test Method: Calculated]

VOC Less H2O & Exempt Solvents <=592 g/l [Test Method: calculated SCAQMD rule 443.1]

Solids Content 10 - 30 %

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

Sparks and/or flames

## 10.5. Incompatible materials

Strong oxidizing agents

## 10.6. Hazardous decomposition products

<u>Substance</u>

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

#### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

#### Additional Health Effects:

#### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity** 

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE > 5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE > 50 mg/l
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Dimethyl Ether	Inhalation- Gas (4 hours)	Rat	LC50 164,000 ppm
Acetone	Dermal	Rabbit	LD50 > 15,688 mg/kg
Acetone	Inhalation- Vapor (4 hours)	Rat	LC50 76 mg/l
Acetone	Ingestion	Rat	LD50 5,800 mg/kg
Pentane	Dermal	Rabbit	LD50 3,000 mg/kg
Pentane	Inhalation-	Rat	LC50 > 18 mg/l

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	Vapor (4		
	hours)		
Pentane	Ingestion	Rat	LD50 > 2,000 mg/kg
Isobutane	Inhalation-	Rat	LC50 276,000 ppm
	Gas (4		
	hours)	1	
Propane	Inhalation-	Rat	LC50 > 200,000 ppm
	Gas (4		
	hours)		
Cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexane	Inhalation-	Rat	LC50 > 32.9 mg/l
	Vapor (4		
	hours)		
Cyclohexane	Ingestion	Rat	LD50 6,200 mg/kg
Non-Volatile Components	Dermal	Rabbit	LD50 > 2,000 mg/kg
Non-Volatile Components	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Acetone	Mouse	Minimal irritation
Pentane	Rabbit	Minimal irritation
Isobutane	Professio nal judgeme nt	No significant irritation
Propane	Rabbit	Minimal irritation
Cyclohexane	Rabbit	Mild irritant
Non-Volatile Components	Professio nal judgeme nt	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Acetone	Rabbit	Severe irritant
Pentane	Rabbit	Mild irritant
Isobutane	Professio	No significant irritation
	nal	_
	judgeme	
	nt	
Propane	Rabbit	Mild irritant
Cyclohexane	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Pentane	Guinea	Not sensitizing
	pig	-

## Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Dimethyl Ether	In Vitro	Not mutagenic
Dimethyl Ether	In vivo	Not mutagenic
Acetone	In vivo	Not mutagenic
Acetone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Pentane	In vivo	Not mutagenic
Pentane	In Vitro	Some positive data exist, but the data are not sufficient for classification

## 3MTM Hi-Strength 90 Cylinder Spray Adhesive, Clear 05/08/15

Isobutane	In Vitro	Not mutagenic
Propane	In Vitro	Not mutagenic
Cyclohexane	In Vitro	Not mutagenic
Cyclohexane	In vivo	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Dimethyl Ether	Inhalation	Rat	Not carcinogenic
Acetone	Not	Multiple	Not carcinogenic
	Specified	animal	
		species	

## Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Dimethyl Ether	Inhalation	Not toxic to female reproduction	Rat	NOAEL 25,000 ppm	2 years
Dimethyl Ether	Inhalation	Not toxic to male reproduction	Rat	NOAEL 25,000 ppm	2 years
Dimethyl Ether	Inhalation	Not toxic to development	Rat	NOAEL 40,000 ppm	during organogenesi s
Acetone	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
Acetone	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	13 weeks
Acetone	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5.2 mg/l	during organogenesi s
Pentane	Inhalation	Not toxic to female reproduction	Rat	NOAEL 20 mg/l	13 weeks
Pentane	Inhalation	Not toxic to male reproduction	Rat	NOAEL 20 mg/l	13 weeks
Pentane	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	during organogenesi s
Pentane	Inhalation	Not toxic to development	Rat	NOAEL 30 mg/l	during organogenesi s
Cyclohexane	Inhalation	Not toxic to female reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane	Inhalation	Not toxic to male reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 6.9 mg/l	2 generation

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Dimethyl Ether	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 10,000 ppm	30 minutes
Dimethyl Ether	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 100,000 ppm	5 minutes
Acetone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Acetone	Inhalation	respiratory irritation	Some positive data exist, but the	Human	NOAEL Not	

			data are not sufficient for classification		available	
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 hours
Acetone	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	
Acetone	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Pentane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
Pentane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL Not available	not available
Pentane	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL Not available	not available
Isobutane	Inhalation	cardiac sensitization	Causes damage to organs	Multiple animal species	NOAEL Not available	
Isobutane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Isobutane	Inhalation	respiratory irritation	All data are negative	Mouse	NOAEL Not available	
Propane	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
Propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	_
Propane	Inhalation	respiratory irritation	All data are negative	Нитап	NOAEL Not available	-
Cyclohexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Cyclohexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Dimethyl Ether	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 25,000 ppm	2 years
Dimethyl Ether	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 20,000 ppm	30 weeks
Acetone	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	3 weeks
Acetone	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 3 mg/l	6 weeks
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 days
Acetone	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 119 mg/l	not available
Acetone	Inhalation	heart   liver	All data are negative	Rat	NOAEL 45 mg/l	8 weeks
Acetone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 900 mg/kg/đay	13 weeks
Acetone	Ingestion	heart	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 2,500	13 weeks

			classification		mg/kg/day	1
Acetone	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	13 weeks
Acetone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3,896 mg/kg/day	14 days
Acetone	Ingestion	eyes	All data are negative	Rat	NOAEL 3,400 mg/kg/day	13 weeks
Acetone	Ingestion	respiratory system	All data are negative	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Acetone	Ingestion	muscles	All data are negative	Rat	NOAEL 2,500 mg/kg	13 weeks
Acetone	Ingestion	skin   bone, teeth, nails, and/or hair	All data are negative	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
Pentane	Inhalation	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Pentane	Inhalation	heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system	All data are negative	Rat	NOAEL 20 mg/l	13 weeks
Pentane	Ingestion	kidney and/or bladder	All data are negative	Rat	NOAEL 2,000 mg/kg/day	28 days
Isobutane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,500 ppm	13 weeks
Cyclohexane	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 24 mg/l	90 days
Cyclohexane	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.7 mg/l	90 days
Cyclohexane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 2.7 mg/l	10 weeks
Cyclohexane	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 24 mg/l	14 weeks
Cyclohexane	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 8,6 mg/l	30 weeks

## **Aspiration Hazard**

Name	Value
Pentane	Aspiration hazard
Cyclohexane	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## **SECTION 12: Ecological information**

**Ecotoxicological information** 

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

## 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

## **SECTION 14: Transport Information**

For Transport Information, please visit <a href="http://3M.com/Transportinfo">http://3M.com/Transportinfo</a> or call 1-800-364-3577 or 651-737-6501.

## **SECTION 15: Regulatory information**

### 15.1. US Federal Regulations

Contact 3M for more information.

## 311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

 Ingredient
 C.A.S. No
 % by Wt

 Cyclohexane
 110-82-7
 10 - 30

## 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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05/14/13

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## Safety Data Sheet

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08/05/10

## **SECTION 1: Identification**

#### 1.1. Product identifier

3M(TM) Hi-Tack Spray Adhesive 76

#### **Product Identification Numbers**

62-4943-4920-2, 62-4943-4921-0, 62-4943-4950-9, 62-4943-4955-8

#### 1.2. Recommended use and restrictions on use

#### Recommended use

aerosol adhesive

#### 1.3. Supplier's details

MANUFACTURER:

3M

DIVISION:

Industrial Adhesives and Tapes Division 3M Center, St. Paul, MN 55144-1000, USA

ADDRESS: Telephone:

1-888-3M HELPS (1-888-364-3577)

# 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

## SECTION 2: Hazard identification

### 2.1. Hazard classification

Flammable Aerosol: Category 1.

Serious Eye Damage/Irritation: Category 2B.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

Specific Target Organ Toxicity (respiratory irritation): Category 3.

#### 2.2. Label elements

### Signal word

Danger

#### Symbols

Flame | Exclamation mark | Health Hazard |

#### **Pictograms**

### 3M(TM) Hi-Tack Spray Adhesive 76 01/16/15



#### **Hazard Statements**

Extremely flammable aerosol.

Causes eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May displace oxygen and cause rapid suffocation.

Causes damage to organs:

cardiovascular system |

### **Precautionary Statements**

#### Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

"--- surized container: Do not pierce or burn, even after use.

ot breathe dust/fume/gas/mist/vapors/spray.

only outdoors or in a well-ventilated area.

not eat, drink or smoke when using this product.

sh thoroughly after handling.

### ponse:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF exposed: Call a POISON CENTER or doctor/physician.

Specific treatment (see Notes to Physician on this label).

## Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Keep container tightly closed.

Store locked up in a well-ventilated place.

#### Disposal

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

### 2.3. Hazards not otherwise classified

None.

2% of the mixture consists of ingredients of unknown acute oral toxicity.

## SECTION 3: Composition/information on ingredients

T		
Ingredient	C.A.S. No.	% by Wt

### 3M(TM) Hi-Tack Spray Adhesive 76 01/16/15

Dimethyl ether	115-10-6	35 - 45 Trade Secret *
Methyl acetate	79-20-9	20 - 30 Trade Secret *
Non-hazardous components (N.J.T.S Reg No. 04499600-6481P)	Trade Secret*	10 - 20 Trade Secret *
Cyclohexane	110-82-7	7 - 13 Trade Secret *
1,1-Difluoroethane	75-37-6	1 - 5 Trade Secret *
Light petroleum distillates	64742-47-8	0.5 - 1.5 Trade Secret *
Petroleum Naptha	64742-48-9	0.5 - 1.5 Trade Secret *

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. Get medical attention.

#### **Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### **Eve Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary,

## SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

## Hazardous Decomposition or By-Products

SubstanceConditionAldehydesDuring CombustionCarbon monoxideDuring CombustionCarbon dioxideDuring Combustion

## 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Cyclohexane	110-82-7	ACGIH	TWA:100 ppm	
Cyclohexane	110-82-7	OSHA	TWA:1050 mg/m3(300 ppm)	
Dimethyl ether	115-10-6	AIHA	TWA:1880 mg/m3(1000 ppm)	
Dimethyl ether	115-10-6	CMRG	TWA:1000 ppm	<u></u>
JET FUELS (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., Skin Notation
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3	A3: Confirmed animal carcin., Skin Notation
Light petroleum distillates	64742-47-8	CMRG	TWA:165 ppm	
Petroleum Naptha	64742-48-9	Manufacturer determined	TWA:100 ppm	
1,1-Difluoroethane	75-37-6	CMRG	TWA:1000 ppm	
1,1-Difluoroethane	75-37-6	AIHA	TWA:2700 mg/m3(1000 ppm)	
Methyl acetate	79-20-9	OSHA	TWA:610 mg/m3(200 ppm)	
Methyl acetate	79-20-9	ACGIH	TWA:200 ppm;STEL:250 ppm	

#### 3M(TM) Hi-Tack Spray Adhesive 76 01/16/15

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

### 8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber

## Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

Organic vapor respirators may have short service life.

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

General Physical Form: Gas
Specific Physical Form: Aerosol

Odor, Color, Grade: clear-amber, mild solvent odor

Odor thresholdNo Data AvailablepHNo Data AvailableMelting pointNo Data Available

Flash Point -40 °F [Test Method: Tagliabue Closed Cup]

Evaporation rate 1.90 [Ref Std: ETHER=1] Flammability (solid, gas) Flammable Aerosol: Category 1.

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Density

No Data Available
No Data Available
2.97 [Ref Std: AIR=1]

Density 0.782 g/ml

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Specific Gravity 0.782 [Ref Std: WATER=1]

Solubility in Water Ni

Solubility- non-water
Partition coefficient: n-octanol/ water
Autoignition temperature
Decomposition temperature
Viscosity
No Data Available
No Data Available
Not Applicable
Not Applicable

Hazardous Air Pollutants 0 % weight [Test Method: Calculated]

Volatile Organic Compounds <=428 g/l [Test Method: calculated SCAQMD rule 443.1]

[Details: low solids less exempts]

Volatile Organic Compounds <=3.57 lb/gal [Test Method: calculated SCAQMD rule 443.1]

[Details: low solids less exempts]
Approximately 85 % weight

Percent volatile Approximately 85 % weight VOC Less H2O & Exempt Solvents <=54.7 % [Test Method: calculated per CARB title 2]

Solids Content 7.1 %

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

## 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

## 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

#### Additional Health Effects:

### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

### Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Dimethyl ether	Inhalation-	Rat	LC50 164,000 ppm
	Gas (4		
	hours)		
Methyl acetate	Dermal	Rat	LD50 > 2,000 mg/kg
Methyl acetate	Inhalation-	Rat	LC50 > 49 mg/l
	Vapor (4		
	hours)		
Methyl acetate	Ingestion	Rat	LD50 > 5,000 mg/kg
Cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexane	Inhalation-	Rat	LC50 > 32.9 mg/l
	Vapor (4		
	hours)	l	
Cyclohexane	Ingestion	Rat	LD50 6,200 mg/kg
1,1-Difluoroethane	Inhalation-	Rat	LC50 > 437,000 ppm
	Gas (4		
	hours)	1	
I,1-Difluoroethane	Ingestion	Rat	LD50 > 1,500 mg/kg
Non-hazardous components (N.J.T.S Reg No. 04499600-6481P)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Non-hazardous components (N.J.T.S Reg No. 04499600-6481P)	Ingestion	Rat	LD50 > 5,000 mg/kg
Petroleum Naptha	Inhalation-		LC50 estimated to be 20 - 50 mg/l
<u>-</u>	Vapor		
Light petroleum distillates	Dermal	Rabbit	LD50 > 3,160 mg/kg
Petroleum Naptha	Dermal	Rabbit	LD50 > 3,000 mg/kg
Light petroleum distillates	Inhalation-	Rat	LC50 > 3.0 mg/l

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	Dust/Mist (4 hours)		
Light petroleum distillates	Ingestion	Rat	LD50 > 5,000 mg/kg
Petroleum Naptha	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Methyl acetate	Rabbit	No significant irritation
Cyclohexane	Rabbit	Mild irritant
Non-hazardous components (N.J.T.S Reg No. 04499600-6481P)		No significant irritation
Light petroleum distillates	Rabbit	Mild irritant
Petroleum Naptha	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Methyl acetate	Rabbit	Moderate irritant
Cyclohexane	Rabbit	Mild irritant
Light petroleum distillates	Rabbit	Mild irritant
Petroleum Naptha	Rabbit	No significant irritation

## Skin Sensitization

Name	Species	Value
Methyl acetate	Human	Not sensitizing
Light petroleum distillates	Guinea	Not sensitizing
	pig	<u> </u>
Petroleum Naptha	Guinea	Not sensitizing
	pig	

## Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Dimethyl ether	In Vitro	Not mutagenic
Dimethyl ether	In vivo	Not mutagenic
Methyl acetate	In Vitro	Not mutagenic
Methyl acetate	In vivo	Not mutagenic
Cyclohexane	In Vitro	Not mutagenic
Cyclohexane	In vivo	Some positive data exist, but the data are not sufficient for classification
1,1-Difluoroethane	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,1-Difluoroethane	În vivo	Some positive data exist, but the data are not sufficient for classification
Light petroleum distillates	In Vitro	Not mutagenic
Petroleum Naptha	In vivo	Not mutagenic
Petroleum Naptha	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Dimethyl ether	Inhalation	Rat	Not carcinogenic
1,1-Difluoroethane	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Light petroleum distillates	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Petroleum Naptha	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Petroleum Naptha	Inhalation	Human and	Some positive data exist, but the data are not sufficient for classification

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## Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Dimethyl ether	Inhalation	Not toxic to female reproduction	Rat	NOAEL 25,000 ppm	2 years
Dimethyl ether	Inhalation	Not toxic to male reproduction	Rat	NOAEL 25,000 ppm	2 years
Dimethyl ether	Inhalation	Not toxic to development	Rat	NOAEL 40,000 ppm	during organogenesi s
Cyclohexane	Inhalation	Not toxic to female reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane	Inhalation	Not toxic to male reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane .	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 6,9 mg/l	2 generation
1,1-Difluoroethane	Inhalation	Not toxic to female reproduction	Rat	NOAEL 25,000 ppm	2 years
1,1-Difluoroethane	Inhalation	Not toxic to male reproduction	Rat	NOAEL 25,000 ppm	2 years
1,1-Difluoroethane	Inhalation	Not toxic to development	Rat	NOAEL 50,000 ppm	during organogenesi s
Petroleum Naptha	Inhalation	Not toxic to development	Rat	NOAEL 2.4 mg/l	during organogenesi s

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Dimethyl ether	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 10,000 ppm	30 minutes
Dimethyl ether	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 100,000 ppm	5 minutes
Methyl acetate	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Methyl acetate	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
Methyl acetate	Inhalation	blindness	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Methyl acetate	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Cyclohexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Cyclohexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
1,1-Difluoroethane	Inhalation	cardiac sensitization	Causes damage to organs	Human and animal	NOAEL Not available	poisoning and/or abuse
1,I-Difluoroethane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL 100,000 ppm	
1,1-Difluoroethane	Inhalation	respiratory irritation	Some positive data exist, but the	Not	NOAEL Not	not available

			data are not sufficient for classification	available	available	
Light petroleum distillates	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Light petroleum distillates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Petroleum Naptha	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Petroleum Naptha	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Petroleum Naptha	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 6.5 mg/l	4 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Dimethyl ether	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 25,000 ppm	2 years
Dimethyl ether	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 20,000 ppm	30 weeks
Methyl acetate	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	28 days
Methyl acetate	Inhalation	endocrine system   hematopoietic system   liver   immune system   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 6,1 mg/l	28 days
Cyclohexane	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 24 mg/l	90 days
Cyclohexane	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,7 mg/l	90 days
Cyclohexane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 2,7 mg/l	10 weeks
Cyclohexane	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 24 mg/l	14 weeks
Cyclohexane	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 8.6 mg/l	30 weeks
1,1-Difluoroethane	Inhalation	hematopoietic system   kidney and/or bladder   respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 25,000 ppm	2 years
Petroleum Naptha	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 4.6 mg/l	6 months
Petroleum Naptha	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1.9 mg/l	13 weeks
Petroleum Naptha	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.6 mg/l	90 days
Petroleum Naptha	Inhalation	bone, teeth, nails, and/or hair   blood   liver   muscles	All data are negative	Rat	NOAEL 5.6 mg/l	12 weeks
Petroleum Naptha	Inhalation	heart	All data are negative	Multiple animal	NOAEL 1.3 mg/l	90 days

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	species
, l <sub>v</sub>	species

**Aspiration Hazard** 

Name	Value
Cyclohexane	Aspiration hazard
Light petroleum distillates	Aspiration hazard
Petroleum Naptha	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## SECTION 12: Ecological information

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

## **SECTION 14: Transport Information**

For Transport Information, please visit <a href="http://3M.com/Transportinfo">http://3M.com/Transportinfo</a> or call 1-800-364-3577 or 651-737-6501.

## **SECTION 15: Regulatory information**

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

 Ingredient
 C.A.S. No
 % by Wt

 Cyclohexane
 110-82-7
 7 - 13

### 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 1 Special Hazards: None

Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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08/05/10

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01/29/16

## **SECTION 1: Identification**

#### 1.1. Product identifier

3M(TM) Super 77(TM) Multipurpose Adhesive (Aerosol)

#### **Product Identification Numbers**

62-4977-2924-4, 62-4977-2928-5, 62-4977-4730-3, 62-4977-4925-9, 62-4977-4929-1, 62-4977-4930-9, 62-4977-4935-8

#### 1.2. Recommended use and restrictions on use

## Recommended use

Adhesive aerosol, General Purpose Aerosol adhesive

1.3. Supplier's details

MANUFACTURER:

DIVISION:

Industrial Adhesives and Tapes Division 3M Center, St. Paul, MN 55144-1000, USA

ADDRESS: Telephone:

1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

## SECTION 2: Hazard identification

#### 2.1. Hazard classification

Flammable Aerosol: Category 1.

Serious Eye Damage/Irritation: Category 2A.

Reproductive Toxicity: Category 2.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

### 2.2. Label elements

## Signal word

Danger

#### Symbols

Flame | Exclamation mark | Health Hazard |

### **Pictograms**



#### **Hazard Statements**

Extremely flammable aerosol.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

May displace oxygen and cause rapid suffocation.

Causes damage to organs: cardiovascular system |

#### **Precautionary Statements**

#### General:

Keep out of reach of children.

#### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

o not breathe dust/fume/gas/mist/vapors/spray.

se only outdoors or in a well-ventilated area.

lear protective gloves and eye/face protection.

o not eat, drink or smoke when using this product.

'ash thoroughly after handling.

### \_esponse:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment (see Notes to Physician on this label).

#### Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Keep container tightly closed.

Store locked up in a well-ventilated place.

#### Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

#### Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

### 2.3. Hazards not otherwise classified

None.

36% of the mixture consists of ingredients of unknown acute dermal toxicity.

## **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Acetone	67-64-1	20 - 30 Trade Secret *
Non-volatile components (N.J.T.S. Registry No. 04499600-6433P)	Trade Secret*	20 - 30 Trade Secret *
Propane	74-98-6	15 - 25 Trade Secret *
Cyclohexane	110-82-7	10 - 20 Trade Secret *
Petroleum distillates	64742-49-0	10 - 20 Trade Secret *
Hexane	110-54-3	< 0.5

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

### Inhalation:

Remove person to fresh air. Get medical attention.

#### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eve Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

## 4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

## SECTION 5: Fire-fighting measures

## 5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

Substance
Aldehydes
Carbon monoxide
Carbon dioxide

Condition
During Combustion
During Combustion
During Combustion

#### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

# SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

#### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidizing agents.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

# Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Hexane	110-54-3	ACGIH	TWA:50 ppm	Skin Notation
Hexane	110-54-3	OSHA	TWA:1800 mg/m3(500 ppm)	
Cyclohexane	110-82-7	ACGIH	TWA:100 ppm	
Cyclohexane	110-82-7	OSHA	TWA:1050 mg/m3(300 ppm)	
Petroleum distillates	64742-49-0	CMRG	TWA:50 ppm	

# 3M(TM) Super 77(TM) Multipurpose Adhesive (Aerosol) 02/16/16

Acetone	67-64-1	ACGIH	TWA:250 ppm;STEL:500 ppm	A4: Not class. as human carcin
Acetone	67-64-1	OSHA	TWA:2400 mg/m3(1000 ppm)	
Propane	74-98-6	ACGIH	Limit value not established:	
Propane	74-98-6	OSHA	TWA:1800 mg/m3(1000 ppm)	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect Vented Goggles

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber Nitrile Rubber

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

General Physical Form:

Specific Physical Form:

Aerosol

Odor, Color, Grade: Clear, sweet, fruity odor
Odor threshold No Data Available

No Data Available

pH No Data Available
Melting point No Data Available
Boiling Point Not Applicable

Flash Point -42.00 °F [Test Method: Tagliabue Closed Cup]

#### 3M(TM) Super 77(TM) Multipurpose Adhesive (Aerosol) 02/16/16

Evaporation rate 1.9 [Ref Std: ETHER=1]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Density

Not Applicable

No Data Available

No Data Available

2.97 [Ref Std: AIR=1]

Density 0.726 g/ml

Specific Gravity 0.726 [Ref Std: WATER=1]

Solubility in Water Nil

Solubility- non-water

Partition coefficient: n-octanol/ water

Autoignition temperature

Decomposition temperature

No Data Available
No Data Available
Not Applicable

Viscosity Not Applicable

Hazardous Air Pollutants <=0.4 % weight [Test Method: Calculated]
VOC Less H2O & Exempt Solvents <=51 % [Test Method: calculated SCAQMD rule 443.1]

Solids Content >=22.4 %

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat

#### 10.5. Incompatible materials

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

Substance None known. Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

# SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

#### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### Skin Contact:

Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

#### **Eve Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea,

May cause additional health effects (see below).

#### Additional Health Effects:

#### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

# **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE > 5,000 mg/kg
Overall product	Ingestion	, <u>-</u> ,,	No data available; calculated ATE > 5,000 mg/kg
Propane	Inhalation- Gas (4 hours)	Rat	LC50 > 200,000 ppm
Acetone	Dermal	Rabbit	LD50 > 15,688 mg/kg
Acetone	Inhalation- Vapor (4 hours)	Rat	LC50 76 mg/l
Acetone	Ingestion	Rat	LD50 5,800 mg/kg
Cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexane	Inhalation- Vapor (4 hours)	Rat	LC50 > 32.9 mg/l
Cyclohexane	Ingestion	Rat	LD50 6,200 mg/kg
Petroleum distillates	Dermal	Rabbit	LD50 > 3,160 mg/kg

# 3M(TM) Super 77(TM) Multipurpose Adhesive (Aerosol) 02/16/16

Petroleum distillates	Inhalation-	Rat	LC50 > 14.7 mg/l
	Vapor (4	l .	
	hours)	į.	
Petroleum distillates	Ingestion	Rat	LD50 > 5,000 mg/kg
Non-volatile components (N.J.T.S. Registry No. 04499600-6433P)	Dermal		LD50 estimated to be > 5,000 mg/kg
Non-volatile components (N.J.T.S. Registry No. 04499600-6433P)	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Hexane	Dermal	Rabbit	LD50 > 2,000 mg/kg
Hexane	Inhalation- Vapor (4 hours)	Rat	LC50 170 mg/l
Hexane	Ingestion	Rat	LD50 > 28,700 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value	
Propane	Rabbit	Minimal irritation	
Асетопе	Mouse	Minimal irritation	
Cyclohexane	Rabbit	Mild irritant	
Petroleum distillates	Rabbit	Irritant	
Non-volatile components (N.J.T.S. Registry No. 04499600-6433P)	Professio nal judgeme nt	Minimal irritation	
Hexane	Human and animal	Mild irritant	

Serious Eye Damage/Irritation

Name	Species	Value
Propane	Rabbit	Mild irritant
Acetone	Rabbit	Severe irritant
Cyclohexane	Rabbit	Mild irritant
Petroleum distillates	Rabbit	Mild irritant
Hexane	Rabbit	Mild irritant

# Skin Sensitization

Name	Species	Value
Petroleum distillates	Guinea	Not sensitizing
	pig	
Hexane	Human	Not sensitizing

# Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Propane	In Vitro	Not mutagenic
Acetone	In vivo	Not mutagenic
Acetone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Cyclohexane	In Vitro	Not mutagenic
Сусіоћехале	In vivo	Some positive data exist, but the data are not sufficient for classification
Petroleum distillates	In Vitro	Not mutagenic
Hexane	In Vitro	Not mutagenic
Hexane	In vivo	Not mutagenic

# Carcinogenicity

02	1	6/1	6

Name	Route	Species	Value
Acetone	Not Specified	Multiple animal species	Not carcinogenic
Petroleum distillates	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Hexane	Dermal	Mouse	Not carcinogenic
Hexane	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Acetone	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	13 weeks
Асетопе	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5.2 mg/l	during organogenesi s
Cyclohexane	Inhalation	Not toxic to female reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane	Inhalation	Not toxic to male reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 6.9 mg/l	2 generation
Hexane	Ingestion	Not toxic to development	Mouse	NOAEL 2,200 mg/kg/day	during organogenesi s
Hexane	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 0.7 mg/l	during gestation
Hexane	Ingestion	Toxic to male reproduction	Rat	NOAEL 1,140 mg/kg/day	90 days
Hexane	Inhalation	Toxic to male reproduction	Rat	LOAEL 3.52 mg/l	28 days

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name 	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Propane	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
Propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Propane	Inhalation	respiratory irritation	All data are negative	Human	NOAEL Not available	
Acetone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Acetone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1,19 mg/l	6 hours
Acetone	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	
Acetone	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Cyclohexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	

Cyclohexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Cyclohexane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Petroleum distillates	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Petroleum distillates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Petroleum distillates	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Hexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
Hexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL Not available	8 hours
Hexane	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 24.6 mg/l	8 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Acetone	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	3 weeks
Acetone	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 3 mg/l	6 weeks
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 days
Acetone	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 119 mg/l	not available
Acetone	Inhalation	heart   liver	All data are negative	Rat	NOAEL 45 mg/l	8 weeks
Acetone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 900 mg/kg/day	13 weeks
Acetone	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Acetone	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	. 13 weeks
Acetone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3,896 mg/kg/day	14 days
Acetone	Ingestion	eyes	All data are negative	Rat	NOAEL 3,400 mg/kg/day	13 weeks
Acetone	Ingestion	respiratory system	All data are negative	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Асеtопе	Ingestion	muscles	All data are negative	Rat	NOAEL 2,500 mg/kg	13 weeks
Acetone	Ingestion	skin   bone, teeth, nails, and/or hair	All data are negative	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
Cyclohexane	Inhalation	liver	Some positive data exist, but the	Rat	NOAEL 24	90 days

			data are not sufficient for classification		mg/l	
Cyclohexane	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.7 mg/l	90 days
Cyclohexane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 2.7 mg/l	10 weeks
Cyclohexane	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 24 mg/l	14 weeks
Cyclohexane	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 8.6 mg/l	30 weeks
Hexane	Inhalation	peripheral nervous system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Hexane	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 1.76 mg/l	13 weeks
Hexane	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	6 months
Hexane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1.76 mg/l	6 months
Hexane	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 35,2 mg/l	13 weeks
Hexane	Inhalation	auditory system   immune system   eyes	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Hexane	Inhalation	heart   skin   endocrine system	All data are negative	Rat	NOAEL 1.76 mg/l	6 months
Hexane	Ingestion	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,140 mg/kg/day	90 days
Hexane	Ingestion	endocrine system   hematopoietic system   liver   immune system   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	13 weeks

**Aspiration Hazard** 

Name	Value
Cyclohexane	Aspiration hazard
Petroleum distillates	Aspiration hazard
Hexane	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# SECTION 12: Ecological information

# **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. Facility must be capable of handling aerosol cans.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

# SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501

# **SECTION 15: Regulatory information**

# 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient Cyclohexane

C.A.S. No 110-82-7

% by Wt Trade Secret 10 - 20

#### 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

#### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### SECTION 16: Other information

#### NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 0 Special Hazards: None

Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

#### **HMIS Hazard Classification**

Health: \*2 Flammability: 4 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

**Document Group:** 

16-3472-4

Version Number:

37.02

**Issue Date:** 

02/16/16

**Supercedes Date:** 

01/29/16

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3M USA SDSs are available at www.3M.com

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# **Oatey**\*

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Oatey Purple Primer- NSF Listed for PVC and CPVC

Other means of identification

Product code 1402E

Synonyms Part Numbers: 30755(TV), 30756(TV), 30757(TV), 30758, 30759, 30927

Recommended use Joining PVC Pipes
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

**Company Name** 

Oatey Co.

Address

4700 West 160th St. Cleveland, OH 44135

 Telephone
 216-267-7100

 E-mail
 info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

#### 2. Hazard(s) identification

Physical hazards Flammable liquids Category 2

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

**OSHA** defined hazards

Not classified.

Label elements



Signal word Dang

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Oatey Purple Primer- NSF Listed for PVC and CPVC

926733 Version #: 01 Revision date: - Issue date: 27-May-2015

Storage Disposal

Hazard(s) not otherwise classified (HNOC)

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

# Supplemental information

Not applicable.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%	
Acetone	67-64-1		
Cyclohexanone	108-94-1	25-40	
Furan, Tetrahydro-	109-99-9	15-30	
Methyl ethyl ketone	78-93-3	15-30	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special nt needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions Specific methods

General fire hazards

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive

organic peroxide when exposed to air or light or with age.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

7. Handling and storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

100 ppm

# 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
,		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
,		200 ppm	
US. ACGIH Threshold Limit Value	es .		
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
•	TWA	20 ppm	

**STEL** 

Furan, Tetrahydro- (CAS

109-99-9)

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
·	TWA	200 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
·		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3	
·		250 ppm	
	TWA	590 mg/m3	
		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
•		300 ppm	
	TWA	590 mg/m3	
		200 ppm	

#### Biological limit values

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	(
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Furan, Tetrahydro- (CAS 109-99-9)

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

Oatey Purple Primer- NSF Listed for PVC and CPVC 926733 Version #: 01 Revision date: - Issue date: 27-May-2015 Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Translucent liquid.

Color Purple
Odor Solvent.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling 151 °F (66.11 °C)

range

Flash point 14.0 - 23.0 °F (-10.0 - -5.0 °C)

Evaporation rate 5.5 - 8
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower 1.8

(%)

Flammability limit - upper 11.8

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 145 mm Hg @ 20 C

Vapor density 2.5

Relative density 0.84 +/- 0.02 @20°C

Solubility(ies)

Solubility (water) Negligible

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Bulk density 7 lb/gal

VOC (Weight %) 505 g/l SQACMD Method 24

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport,

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation

to the respiratory system. Vapors have a narcotic effect and may cause headache, fatique,

dizziness and nausea. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May be fatal if swallowed and enters airways, Harmful if swallowed, Harmful if swallowed, Droplets

of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

#### Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components Species **Test Results** Acetone (CAS 67-64-1) Acute Dermal LD50 Rabbit 20 ml/kg Inhalation LC50 Rat 50 mg/l, 8 Hours

Oral

LD50 Rat 5800 mg/kg

Cyclohexanone (CAS 108-94-1)

Acute

Dermal

LD50 Rabbit 948 mg/kg

Inhalation

LC50 Rat 8000 ppm, 4 hours

Oral

LD50 Rat 1540 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

3 Not classifiable as to carcinogenicity to humans.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

May be fatal if swallowed and enters airways.

Chronic effects

Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Acetone (CAS 67-64	-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas	s) > 100 mg/l, 96 hours
Cyclohexanone (CAS	3 108-94-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promela	s) 481 - 578 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1) -0.24Cyclohexanone (CAS 108-94-1) 0.81 Furan, Tetrahydro- (CAS 109-99-9) 0.46 Methyl ethyl ketone (CAS 78-93-3) 0.29

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### 14. Transport information

DOT

UN1993 UN number

UN proper shipping name

Transport hazard class(es)

Flammable liquids, n.o.s. (Methyl ethyl ketone RQ = 26274 LBS, Acetone RQ = 13130 LBS)

Class 3 Subsidiary risk Label(s) 3 Packing group Н

Oatey Purple Primer- NSF Listed for PVC and CPVC

926733 Version #: 01 Revision date: - Issue date: 27-May-2015 Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions 150 Packaging non bulk 202 Packaging bulk 242

**IATA** 

**UN number** UN1993

UN proper shipping name Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone) Transport hazard class(es)

3 Class Subsidiary risk П Packing group **Environmental hazards** No. **ERG Code** ЗН

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

**UN number** 

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Acetone)

Transport hazard class(es)

3 Class Subsidiary risk П Packing group **Environmental hazards** 

Marine pollutant No. **EmS** F-E, \$-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED Methyl ethyl ketone (CAS 78-93-3) LISTED

Not available.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Oatey Purple Primer- NSF Listed for PVC and CPVC

SDS US 926733 Version #: 01 Revision date: - Issue date: 27-May-2015

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number** 

Acetone (CAS 67-64-1)

6532

Methyl ethyl ketone (CAS 78-93-3)

6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

35 %WV

Methyl ethyl ketone (CAS 78-93-3)

35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Acetone (CAS 67-64-1)

Acetone (CAS 67-64-1)

6532

Methyl ethyl ketone (CAS 78-93-3) 6714

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date

27-May-2015

Revision date

01

Version #

Health: 2

HMIS® ratings

Flammability: 3

Physical hazard: 0

#### NFPA ratings



#### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.





#### MATERIAL SAFETY DATA SHEET

MSDS Number: 1400C

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name: OATEY CANADIAN CLEAR CLEANER

Product Nos.: 30766, 31493, 31494, 31495, 31496, 31520, 31521, 31522, 31523

Product Use: Cleaner for cementing plastic pipe

Formula: See Section 3

Synonyms: Cleaner

Firm Name & Oatey Company 4700 West 160th Street, Cleveland, Ohio 44135

Address: www.oatey.com Firm Phone No: (216) 267-7100

Emergency Phone For Emergency First Aid call 1-877-740-5015. For chemical transportation

Nos.: emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-

703-527-3887.

Prepared by: Technical Department

Preparation Date: 09/11/2012

#### Section 2 HAZARDS IDENTIFICATION

Emergency Overview:

Clear liquid with a sharp, penetrating odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects. Swallowing may cause irritation, mausea, vomiting, diarrhea and kidney or liver disorders. Aspiration hazard. May be fatal if swallowed. Symptoms may be delayed.

#### Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	%wt/wt :	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA	OTHER:
Methyl Ethyl Ketone	40 - 70%	78-93-3	200 ppm	200 ppm	None
			300 ppm		
Acetone	40 - 70%	67-64-1	500 ppm	1000 ppm	None
			750 ppm STEL		

OSHA Hazard Classification: Flammable, irritant, organ effects

Section 4 FIRST AID MEASURES

Skin: Remove contaminated clothing immediately. Wash all exposed areas with soap and

water. Get medical attention if irritation develops. Remove dried cement with

Oatey Plumber's Hand Cleaner or baby oil.

Eyes: If material gets into eyes or if fumes cause irritation, immediately flush eye

with plenty of water until chemical is removed. If irritation persists, get

medical attention immediately.

Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes

difficult, administer oxygen. Administer artificial respiration if breathing

has stopped. Seek immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to

a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical

emergency treatment center or hospital.

Section 5

FIRE FIGHTING MEASURES

Flashpoint /

14 - 23 Degrees F. (-10 to -5 Degrees C) / CCCFP

Method:

Media:

Special Fire Fighting

Procedure:

Unusual Fire Hazards:

Hazardous

Flammability: LEL = 1.8 % Volume, UEL = 11.8 % Volume

Extinguishing Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored

Extremely flammable liquid. Keep away from heat and all sources of ignition And Explosion including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back.

Combustion will produce toxic and irritating vapors including carbon monoxide, Decomposition carbon dioxide and hydrogen chloride.

ACCIDENTAL RELEASE MEASURES Section 6

Products:

Spill or Leak Remove all sources of ignition and ventilate area. Stop leak if it can be done without risk. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other noncombusting material. Put absorbent material in covered, labeled metal containers. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required. See Section 13 for disposal information.

Section 7 HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Handling:

Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage

or use areas. Keep containers closed when not in use.

Store in a cool, dry, well-ventilated area away from incompatible materials. Storage:

Keep containers closed when not in use.

"Empty" containers retain product residue and can be hazardous. Follow all MSDS Other:

precautions in handling empty containers. Do not cut or weld on or near empty

or full containers.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Open doors & windows. Provide ventilation capable of maintaining emissions at Ventilation:

the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical

fixtures or hot surfaces.

For operations where the exposure limit may be exceeded, a NIOSH approved ory

organic vapor respirator or supplied air respirator is recommended. Equipment on: selection depends on contaminant type and concentration, select in accordance

with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting,

use self-contained breathing apparatus.

Rubber gloves are suitable for normal use of the product. For long exposures chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm)

to avoid prolonged skin contact.

Safety glasses with side shields or safety goggles. Eye

Protection:

Liuuuuilon:

PHYSICAL AND CHEMICAL PROPERTIES Section 9

133 Degrees F / 56 Degrees C Boiling Point:

Melting Point: Not applicable

145 mmHq @ 20 Degrees C Vapor Pressure:

(Air = 1) 2.5Vapor Density:

100% Volatile Components:

Solubility In Water:

Not applicable

Specific Gravity: 0.81 +/- 0.02 @ 20 Degrees C (BUAC = 1) = 5.5 - 8.0

Evaporation Rate:

Appearance:

Odor: Will Dissolve In:

Material Is:

Clear Liquid

Negligible

Sharp, penetrating odor

Methyl Ethyl Ketone

Liquid

Section 10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions To

Avoid heat, sparks, flames and other sources of ignition. Avoid:

Decomposition

Products:

Hazardous

Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Incompatibility/ Materials To Avoid:

Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and

hydrogen peroxides. May attack plastic, resins and rubber.

Hazardous Will not occur.

Polymerization:

Section 11 TOXICOLOGICAL INFORMATION

Vapors or mists may cause mucous membrane and respiratory irritation, Inhalation:

coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.

Skin:

Ingestion:

May cause irritation with redness, itching and pain. Methyl ethyl ketone may

be absorbed through the skin causing effects similar to those listed under

inhalation.

ye: Vapors may cause irritation. Direct contact may cause irritation with

> redness, stinging and tearing of the eyes. May cause eye damage. Swallowing may cause abdominal pain, nausea, vomiting and diarrhea.

Aspiration during swallowing or vomiting can cause chemical pneumonia and

lung damage. May cause kidney and liver damage.

Prolonged or repeated overexposure cause dermatitis and damage to the Chronic

Toxicity: kidney, liver, lungs and central nervous system.

Toxicity Data: Acetone: Oral rat LD50: 5,800 mg/kg

Inhalation rat LC50: 50,100 mg/m3/8 hours

Methyl Ethyl Ketone: Oral rat LD50: 2,737 mg/kg

Inhalation rat LC50: 23,500 mg/m3/8 hours

Skin rabbit LD50: 6,480 mg/kg

None of the components are known to cause sensitization. Sensitization:

None of the components are listed as a carcinogen or suspect carcinogen by Carcinogenicity:

NTP, IARC or OSHA.

Mutagenicity: Reproductive Toxicity:

Acetone, methyl ethyl ketone are generally thought not to be mutagenic. Methyl ethyl ketone has been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone has been found to cause adverse

developmental effects only when exposure levels cause other toxic effects to

the mother.

Medical Conditions Aggravated By Exposure:

Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

ECOLOGICAL INFORMATION Section 12

This product is not expected to be toxic to aquatic organisms.

Acetone: 96 hour LC50 for fish is greater than 100 mg/L.

Methyl Ethyl Ketone: 96 hour LC50 for fish is greater than 100 mg/L.

Page: 3 of 5

VOC This product emits VOC's (volatile organic compounds) in its use. Make sure

Information: that use of this product complies with local VOC emission regulations, where

they exist.

Maximum 550 g/L per SCAQMD Test Method 316A. VOC Level:

DISPOSAL CONSIDERATIONS Section 13

Waste Disposal: Dispose in accordance with current local, state and federal

regulations.

RCRA Hazardous Waste U002, U159,

D001, D035, F003, F0005 EPA Hazardous Waste

ID Number:

UN/NA Number:

EPA Hazard Waste Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

Number:

#### Section 14 TRANSPORT INFORMATION

DOT Less than 1 Liter (0.3 Greater than 1 Liter (0.3

> gal) gal) None UN1993

Proper Shipping Name: Consumer Commodity Flammable Liquid, NOS

(Methyl Ethyl Ketone,

Acetone)

Hazard Class: ORM-D 3 Packing Group: None PGII

Hazard Labels: None Flammable Liquid

IMDG

UN Number: UN1993 UN1993

Flammable Liquid, NOS Proper Shipping Name: Flammable Liquid, NOS

(Limited Quantity) (Methyl Ethyl Ketone,

Acetone)

3 Hazard Class: 3 ΙI Packing Group: ΙI

Label: None (Limited Quantities Class 3 (Flammable Liquid)

are expected from

labeling)

-10 to -5 Degrees C Flashpoint (deg C) -10 to -5 Degrees C

2008 North American Emercency Response Guidebook Number:

#### Section 15 REGULATORY INFORMATION

Hazard Category for Acute Health, Chronic Health, Flammable

Section 311/312:

Section 302 This product does not contain chemicals regulated under SARA Section 302.

Extremely Hazardous

Substances (TPQ):

Section 313 Toxic This product does not contain chemicals subject to SARA Title III Section Chemicals: 313 Reporting requirements.

CERCLA 103 Spills of this product over the RQ (reportable quantity) must be reported Reportable to the National Response Center. The RQ for the product, based on the RQ Quantity: for Methyl Ethyl Ketone (70% maximum) of 5,000 lbs, is 7,143 lbs.

Many states have more stringent release reporting requirements. Report

spills required under federal, state and local regulations.

California This product does not contain any chemicals subject to California

Proposition 65: Proposition 65 regulations.

TSCA Inventory All of the components of this product are listed on the TSCA inventory. Canadian WHIMS Class B, Division 2; Class D, Division 2, Subdivision B; Class D,

Classification: Division 2, Subdivision A. This product has been classified in accordang

with the hazard criteria of the Controlled Products Regulations (CPR) at

the MSDS contains all the information required by the CPR.

Section 16 OTHER INFORMATION

NFPA and HMIS:

NFPA Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 Special: None

HMIS Hazard Signal: Health: 2\* Flammability: 3 Reactivity: 1 PPE: G

#### Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources, and expressly do not make warranties, nor assume any liability for its use.

Template: tmpl-cn-e3

#### MATERIAL SAFETY DATA SHEET

Sopplied By: Staffert Building Products 7025 Americana Parkway Reynoldshury, Ohio 43058 1-800-775-4714 e Name: Roof Kit Seam Primer

BONDLINE ADHESIVES, INC.

MATERIAL SAFETY DATA SHEET

500 N. WOODS AVENUE

PAGE 1

EVANSVILLE, IN 47712 812-423-4651 PRODUCT: S4060C ROOFKIT SEAM PRIMER (JHB910 VERSION)

FAX 812-422-2662

1. CHEMICAL PRODUCT & MANUFACTURER

PRODUCT NAME: S4060CT TAPE PRIMER CHEMICAL FAMILY:

HYDROCARBON

FOR CHEMICAL EMERGENCY: CALL CHEMTREC AT 800-424-9300 24 HRS.

MANUFACTURER/DISTRIBUTOR:

TELEPHONE:

SAME AS ABOVE

SAME AS ABOVE

24 HOUR EMERGENCY:

PERS 800-633-8253

2. COMPOSITION & PRODUCT INFORMATION ON HAZARDOUS INGREDIENTS ACGIH

WT% CAS# TLV-8 HR/TWA

TOLUENE(SECTION 313 REPORTABLE) 90.79 **HEXANE (SECTION 313 REPORTABLE)** 

108-88-3 110-54-003 100 PPM

50 PPM

DIPHENYLMETHANE DIISOCYANATE 0.225 026447-40-5 POLYMETHYLENE POLYPHENOL ISOCYANATE 0.225 009016-87-9

3. HAZARDS IDENTIFICATION

HMIS CODE: HEALTH 4 FLAMMABILITY 3

REACTIVITY 0

NFPA CODE: HEALTH 3 FLAMMABILITY 3

REACTIVITY 0

POTENTIAL HEALTH EFFECTS

EYE CONTACT: MAY BURN AND IRRITATE EYES AND MUCUS MEMBRANES.

SKIN CONTACT: MAY CAUSE DERMATITIS AND DEFATTING OF THE SKIN. PROLONGED

CONTACT WITH ISOCYANATE CAN CAUSE REDDENING, SWELLING,

RASH, SCALING OR BLISTERING.

SKIN ABSORPTION: DERMATITIS AND DEFATTING OF THE SKIN. SKIN ABSORP-

TION IS UNLIKELY DUE TO THE VOLATILITY OF THE PRO-

DUCT IF USED AS ADVISED. ISOCYANATE CAN BE A DERMAL SENSI-

TIZER.

INGESTION: HARMFUL OR FATAL IF SWALLOWED.

INHALATION: MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. INEBRIA-

TION, FOLLOWED BY HEADACHE AND NAUSEA. IN SEVERE CASES DIZZINESS, CONVULSIONS AND UNCONSCIOUSNESS. ANOREXIA AND NERVOUSNESS MAY PERSIST FOR SEVERAL MONTHS FOLLOWING

ACUTE OVEREXPOSURE.

CARCINOGEN: NO

TARGET ORGANS: KIDNEY, LIVER

4. FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR IF OVERCOME. IF BREATHING HAS STOPPED BEGIN CPR. CALL A PHYSICIAN AT ONCE. CONTAINS ISOCYANATE

WHICH IS A PLUMONARY SENSITIZER.

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES:

PAGE: 2 PRODUCT: S4060C

SKIN CONTACT WASH WITH HAND CLEANER; FOLLOW WITH SOAP AND WATER.

INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN AT ONCE.

NOTE TO PHYSICIAN: CONTAINS PETROLEUM DISTILLATES. CONTAINS ISOCYANATE WHICH MAY CAUSE PULMONARY SENSITIZATION IN SOME INDIVIDUALS AT LEVELS LOWER THAN THE PEL. SENSITIZED INDIVIDUALS SHOULD AVOID EXPOSURE TO ANY ISOCYANATE.

PRIMARY ROUTES OF ENTRY: INHALATION, SKIN

5. FIRE FIGHTING MEASURES FLASHPOINT, TAG CLOSED CUP: -25 F

GENERAL HAZARD: EXTREMELY FLAMMABLE. MAY FORM COMBUSTIBLE OR EXPLOSIVE MIXTURES WITH AIR. CLOSED CONTAINERS MAY EXPLODE IF EXPOSED TO EXTREME HEAT. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL CONSIDERABLE DISTANCES TO IGNITION SOURCES AND FLASH BACK.

FIRE FIGHTING INSTRUCTIONS: WATER SPRAY MAY BE INEFFECTIVE BUT
MAY BE USED TO COOL CLOSED CONTAINERS. IF WATER
IS USED, USE FOG NOZZLES.

FIRE FIGHTING EQUIPMENT: NFPA CLASS B EXTINGUISHERS (CO2, FOAM, DRY CHEMICAL) AND SELF CONTAINED BREATHING APPARATUS

COMBUSTION PRODUCTS: SMOKE, NORMAL COMBUSTION PRODUCTS.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE MATERIAL WITH ABSORBENTS AND/OR NON-SPARKING TOOLS. IF SPILL IN EXCESS OF EPA REPOTABLE QUANTITY ENTERS THE ENVIRONMENT CALL NATIONAL RESPONSE CENTER 800-424-8802 IMMEDIATELY.

WATER SPILL: USE ABSORBENT BOOMS TO DIKE AREA AND MINIMIZE AREA OF CONTAMINATION

7. STORAGE AND HANDLING:

STORAGE TEMPERATURE: AMBIENT STORAGE PRESSURE: ATMOSPHERIC

GENERAL: KEEP MATERIAL AWAY FROM HEAT, SPARK AND OPEN FLAME. DO NOT STORE IN OPEN OR UNLABELED CONTAINERS. USE WITH ADEQUATE VENTILATION. DO NOT STORE ABOVE 120F. CONTAINERS SHOULD BE GROUNDED WHEN POURING. AVOID FREE FALL OF LIQUIDS. DO NOT CUT, BRAZE OR WELD. FOR INDUSTRIAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN. READ PRODUCT LABEL AND OBSERVE ALL PRECAUTIONS BEFORE USE. ISOCYANATE REACTS WITH WATER TO FORM CARBON DIOXIDE GAS WHICH MAY RUPTURE SEALED CONTAINERS.

BONDLINE ADHESIVES, INC.

MATERIAL SAFETY DATA SHEET

PAGE: 3

PRODUCT: S4060C

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: LOCAL EXHAUST: PREFERABLE

MECHANICAL EXHAUST: ACCEPTABLE-USE ONLY

CLASS I GROUP D APPROVED DEVICES.

PERSONAL PROTECTION: OSHA PEL: 50 PPM

RESPIRATORY PROTECTION: VENTILATE TO KEEP VAPORS BELOW TLV.
USE NIOSH APPROVED RESPIRATOR FOR AREAS OF CONCENTRATED VAPOR

EYES: SPLASH GOGGLES FOR LIQUID PRODUCTS GLOVES: MUST BE IMPERVIOUS TO SOLVENTS

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: .865 DENSITY:(IN LBS): 7.22 VAPOR DENSITY: 3.0

EVAPORATION RATE (nBuAc=1): 8.1

SOLUBILITY IN WATER: NEGLIGIBLE, BUT WATER WILL LIBERATE CO2; BUILD PRESSURE

BOILING RANGE (F): 150/232 PHYSICAL STATE: LIQUID % VOLATILE BY VOLUME: 95.5

EXPLOSIVE/FLAMMABLE LIMITS: (LEL): 1 (UEL): 8

FLASHPOINT: TAG CLOSED CUP: -25 F VAPOR PRESSURE AT 20C (MM OF HG): 140

VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT: 819.8 g/liter

APPEARANCE AND ODOR: CLEAR SYRUP WITH MILD SOLVENT ODOR.

#### 10. STABILITY AND REACTIVITY

GENERAL: THIS PRODUCT IS STABLE AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: AVOID STRONG OXIDIZING AGENTS. AVOID ALL SOURCES OF IGNITION. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A CONSIDERABLE DISTANCE TO AN IGNITION SOURCE AND FLASHBACK.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

# 11. TOXICOLOGICAL INFORMATION NOT IDENTIFIED AS A CARCINOGEN BY NTP, IARC OR OSHA

# 12. ECOLOGICAL INFORMATION NONE KNOWN

#### 13. DISPOSAL CONSIDERATIONS

THIS MATERIAL IS CONSIDERED A HAZARDOUS WASTE FOR DISPOSAL PURPOSES. SEE 40CFR PART 261.7 FOR FURTHER INFORMATION CONCERNING THE DISPOSITION OF EMPTY CONTAINERS. HAZARDOUS WASTES MAY NOT BE LANDFILLED! REFER TO 40CFR PART 261 SUBPART C FOR DEFINITIONS OF HAZARDOUS WASTE.

BONDLINE ADHESIVES, INC.

MATERIAL SAFETY DATA SHEET

PAGE: 4

PRODUCT: S4060C

#### 14. TRANSPORTATION INFORMATION

DOT SHIPPING NAME: ADHESIVE

DOT HAZARD CLASS: 3 UN ID NUMBER: UN1133

APPLICABLE PACKING GROUP NUMBER: II

15. REGULATORY INFORMATION

OSHA STATUS: HAZARDOUS

CERCLA REPORTABLE QUANTITY: NONE

SARA TITLE III:

SECTION 302: EXTREMELY HAZARDOUS SUBSTANCES: NONE

SECTION 311/312: 311-YES 312-YES

SECTION 313: YES

RCRA STATUS: IF DISCARDED IN ITS PURCHASED FORM, THIS PRODUCT IS A RCRA HAZARDOUS WASTE. IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR RESIDUE OF THE PRODUCT REMAINS CLASSIFIED A HAZARDOUS WASTE AS PER 40 CFR 261, SUBPART C. STATE OR LOCAL REGULATIONS MAY ALSO APPLY IF THEY DIFFER FROM THE FEDERAL REGULATION.

#### 16. OTHER INFORMATION:

APPROVAL DATE: 09-29-06 (Issued for Canada 05-15-12) MSDS FORMAT: S4060C MIXED HEXANE ANSI MSDS

THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. INFORMATION IS BASED UPON SUPPLIER-ISSUED MATERIAL SAFETY SHEETS AND MAY BE SUBJECT TO ERROR. IF APPRISED OF CHANGES, UPDATED MSDS WILL BE PROMPTLY ISSUED. USERS MUST MAKE DETERMINATION REGARDING THE SUITABILITY OF THE PRODUCT FOR THEIR OWN PURPOSES PRIOR TO USE.

READ PRODUCT LABEL CAREFULLY BEFORE USE AND FOLLOW ALL PRECAUTIONS.



# SAFETY DATA SHEET

Revision Date 09-Sep-2015

Version 2

## 1. IDENTIFICATION

Product identifier

**Product Name** 

FAST ORANGE PUMICE CREAM HAND CLEANER 4.5 LB

Other means of identification

**Product Code Synonyms** 

35406

None

Recommended use of the chemical and restrictions on use

Recommended Use Uses advised against Hand Cleaner or Soap - Heavy Duty

No information available

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Distributor

**ITW Permatex** 10 Columbus Blvd. ITW Permatex Canada

35 Brownridge Road, Unit 1

Hartford, CT 06106 USA

Halton Hills, ON Canada L7G 0C6

Telephone: (800) 924-6994

**Company Phone Number** 

1-87-Permatex

(877) 376-2839

24 Hour Emergency Phone Number

Chem-Tel: 800-255-3924 International Emergency:

00+1+ 813-248-0585

Contract Number: MIS0003453

E-mail address

mail@permatex.com

# 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

water of the company

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

#### Label elements

# **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance White

Physical state Cream

Odor Citrus

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)\_

Not applicable

Other Information

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Unknown acute toxicity

15.6009 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
WATER	7732-18-5	60 - 100	*
PUMICE	1332-09-8	5 - 10	*
ETHOXYLATED C11-C16 ALCOHOL	127036-24-2	1 - 5	*
CASTOR OIL	8001-79-4	1 - 5	*
D-LIMONENE	5989-27-5	0.1 - 1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first aid measures

Get medical advice/attention if you feel unwell.

Eye contact

General advice

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact

None under normal use conditions.

Inhalation

None under normal use conditions.

Ingestion

IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** 

See section 2 for more information.

# dication of any immediate medical attention and special treatment needed

ote to physicians

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u> Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

# 35406 - FAST ORANGE PUMICE CREAM HAND CLEANER 4.5 LB

Specific hazards arising from the chemical

None in particular.

**Explosion data** 

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with eyes.

Environmental precautions

**Environmental precautions** 

See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel

into suitable containers for disposal.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep from freezing.

Incompatible materials

Strong oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** 

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

**Engineering Controls** 

Eyewash stations

Individual protection measures, such as personal protective equipment

Eye/face protection

No special technical protective measures are necessary.

Skin and body protection

No special technical protective measures are necessary.

Respiratory protection

None under normal use conditions.

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state

Cream White Citrus

**Appearance** Odor

Odor threshold

No information available

Property

Values 6.0-8.5

Remarks • Method

рН Melting point / freezing point Boiling point / boiling range

No information available > 100 °C / 212 °F

Flash point

> 95 °C / > 203 °F

**Evaporation rate** 

<1 No information available Butyl acetate = 1

Air = 1

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

No information available No information available No information available

Vapor pressure Vapor density Relative density

>1 1.05

Soluble in water

Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature** 

No information available No information available No information available No information available No information available

Kinematic viscosity Dynamic viscosity **Explosive properties** Oxidizing properties

No information available No information available No information available

# Other Information

Softening point Molecular weight VOC Content (%) No information available No information available

<1%

No information available Density **Bulk density** No information available

# 10. STABILITY AND REACTIVITY

## Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Keep from freezing.

#### Incompatible materials

Strong oxidizing agents

#### **Hazardous Decomposition Products**

Carbon oxides

# 11, TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation

None known.

Eye contact

Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion

May cause irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
WATER 7732-18-5	> 90 mL/kg(Rat)	-	-
D-LIMONENE 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
D-LIMONENE	-	Group 2A	-	X
5989-27-5		•		

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

# The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)

266014 mg/kg

ATEmix (dermal)

294753 mg/kg

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

15.6042 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
D-LIMONENE	-	35: 96 h Oncorhynchus mykiss	-
5989-27-5		mg/L LC50 0.619 - 0.796: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through	

#### Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

Mobility

No information available.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number Not applicable

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
D-LIMONENE	Toxic
5989-27-5	

### 14. TRANSPORT INFORMATION

<u>DOT</u>

Proper shipping name: Not regulated

IATA

Proper shipping name: Not regulated

**IMDG** 

Proper shipping name: Not regulated

## 15. REGULATORY INFORMATION

International Inventories

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Not Listed. Not Listed. **ENCS IECSC** Complies **KECL** Not Listed. **PICCS** Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL 57-55-6	Х	-	X
LANOLIN 8006-54-0	-	-	Х

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### WHMIS Hazard Class

Non-controlled

NFPA	Health hazards 1	Flammability 1	Instability 0	-
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B
THING	nealui liazaius i	riailillability (	rnysical nazarus 0	reisonal protection i

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

**Revision Date** 

09-Sep-2015

## <u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

Cleaner/Degreaser (640-3322)

Faxback Doc. # 2975

TECH SPRAY, INC. P O BOX 949 88 NORTH HUGHES AMARILLO TX 79105 (806) 372-8523 MATERIAL SAFETY DATA SHEET RS 64-3322

#### Radio Shack Cleaner/Degreaser

Hazardous Description: (For Shipping Purposes Only) Compressed Gas N.O.S. Non-Flammable Gas UN1956

Hazard Rating Health: 2 Fire: 2 Reactivity: 1
0-Least 1-Slight 2-Moderate 3-High 4-Extreme

\* \* \* \* \* \* \* I--HAZARDOUS COMPONENTS \* \* \* \* \* \* \*

Ingredients	CAS No.	8	Hazard
Dichlorofluoroethane	1717-00-6	52	See Section IX.
Ethanol (Ethyl Alcohol)	64-17-5	27     	OSHA PEL 1000ppm ACGIH TLV 1000ppm
PROPELLANT Chlorodifluoromethane Carbon Dioxide	75-45-6 124-38-9	   20   1	OSHA PEL 1000ppm ACGIH TLV 1000ppm OSHA TLV 10,000ppm

\* \* \* \* \* \* \* II--PHYSICAL DATA \* \* \* \* \* \*

\* \* \* \* \* \* \* III--FIRE AND EXPLOSION HAZARD DATA \* \* \* \* \* \* \*

Flash Point: None to Boiling. See IX.

Explosion Limits LEL: NE UEL: NE

Extinguishing Media: Water, foam, dry chemical, carbon dioxide. Special Firefighting Procedures:

Firefighters should wear self-contained, positive-pressure breathing apparatus and avoid contact with fumes which could contain hydrochloric and hydrofluoric acid.

Unusual Fire and Explosion Hazards:

Aerosol cans may erupt with force at temperatures above 120 degrees F.

TECH SPRAY, INC. P O BOX 949 88 NORTH HUGHES AMARILLO TX 79105 (806) 372-8523 MATERIAL SAFETY DATA SHEET RS 64-3322

flame, heat.

Effects of Overexposure

INHALATION: Major route of exposure. Vapor is heavier than air and can cause suffocation by reducing the available oxygen for breathing. Breathing high concentrations of vapor could cause light-headedness, giddiness, shortness of breath, and/or confusion, and may lead to narcosis, cardiac irregularities, unconsciousness or even death.

EYES: Liquid contact will irritate eyes and may cause conjunctivitis.

SKIN: Not a corrosive or irritant; however, repeated or prolonged exposure can cause defatting of skin.

INGESTION: Single-dose toxicity is low to moderate. If vomiting does occur, the liquid can be aspirated into lungs, which can cause chemical pneumonia and systemic effects. Human psychotropic, gastrointestinal, and central nervous system effects are possible.

\_\_\_\_\_\_\_

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If breathing has stopped, administer artificial respiration. Seek medical attention.

EYES: Flush eyes with water 15 minutes. Lift eyelids occasionally until no evidence of chemical is present. Call physician.

SKIN: Wash promptly with soap and water for 15 minutes while removing contaminated clothing. Get medical attention immediately. Wash clothing before reuse.

INGESTION: If conscious, give 2 to 4 glasses of water and induce
 vomiting, or remove chemical by gastric lavage. Seek
 medical attention immediately. Never give anything by
 mouth to an unconscious person.

NOTE: Do not treat victim with adrenalin. Overexposure, especially if accompanied by anoxia, may cause cardiac irritability and cause respiratory distress. Maintain oxygenation until recovery.

COMMENTS: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes called painters' syndrome).

Intentional misuse by concentrating and inhaling this product may be harmful or fatal.

\* \* \* \* \* \* \* \* V--REACTIVITY DATA \* \* \* \* \* \*

Ober 1911 - Omani II

Stability: STABLE Conditions to Avoid: Contact with open

Incompatibility (materials to avoid):

eactive alkali metals, strong acids & bases.

ardous Decomposition Products:

iydrogen chloride, phosgene, chlorine, carbon dioxide, and carbon ionoxide.

ardous Polymerization: WILL NOT OCCUR

iditions to Avoid: None

Page 2 of 3

TECH SPRAY, INC. P O BOX 949 88 NORTH HUGHES AMARILLO TX 79105 (806) 372-8523

MATERIAL SAFETY DATA SHEET RS 64-3322

\* \* \* \* \* \* \* \* VI--SPILL OR LEAK PROCEDURES \* \* \* \* \* \* \* ------

Evacuate area. Ventilate area well and avoid breathing vapors. Vapor concentration will be highest along floor and in low lying areas. Pick up liquid on a suitable absorbant and store in sealed containers. Shut off fire sources. Workers should wear proper equipment when working in a clean up area.

\* \* \* \* \* \* \* VII--WASTE DISPOSAL METHODS \* \* \* \* \* \* \*

Material may be disposed of by a licensed reclaimer or incineration facility. Consult local, state, and federal disposal authorities for approved procedures.

\* \* \* \* \* \* \* VIII--EMPLOYEE PROTECTION \* \* \* \* \* \* 

Respiratory Protection:

Use NIOSH-approved organic vapor mask when vapor levels exceed TLV. Ventilation: Do not use in closed space. Ventilation required. Hands: Solvent-resistant gloves such as Neoprene or PVA.

Eyes: Wear splash-proof safety goggles or glasses.

Special Precautions:

This product is intended for industrial use only.

\* \* \* \* \* \* \* IX--OTHER INFORMATION \* \* \* \* \* \* ------

Note: Toxicity tests have not been completed on chlorodifluoroethane (141b). Thus, no TLV can be assigned for this product at this time. A working TLV of 350ppm can be used until testing is completed.

Flash Point Data: The material exhibited a flash point at 35 degrees C after approximately 10% of material had evaporated.

Prepared By: J. Witcher Date: 4-24-91

NL=Not Listed NIF=No Information Found NE=Not Established

NA=Not Applicable

**Section 1: Product and Company Identification:** 

**Product Name:** 

Purple Power Prime-Shine Car Wash with Carnauba Wax

Product Use:

Car Wash with Wax

Part's:

9210P, 9215P, 9264P, 9220P, 9225P, 9240

Manufacture/Supplier:

Aiken Chemical Company, Inc.

P.O. Box 27147, Greenville, SC 29616 12 Shelter Drive, Greer, SC 29650

Phone Number:

(864) 968-1250

Emergency Phone:

1-800-828-1860 1-800-424-9300

Date of Preparation:

May 29, 2015

**Section 2: Hazards Identification:** 

Hazard Determination System (HDS): Health, Flammability, Reactivity









**Emergency Overview:** 

Warning:

May cause skin irritation, defatting, dermatitis and possible stinging or itching.

Potential Health Effects: Likely Routes of Exposure: See Section 11 for more information.

Eye:

Eye contact, skin contact, ingestion.

May cause watering, redness, stinging and irritation; which may result in

impairment of vision.

Skin:

Prolonged or repeated contact can cause irritation, defatting, dermatitis and

possible stinging or itching.

Ingestion:

Accidental ingestion may cause gastrointestinal irritation, nausea, and vomiting.

Inhalation:

Inhalation of mists may cause upper respiratory tract irritation.

Prolonged or repeated contact may dry skin and cause irritation.

Chronic Effects: Signs and symptoms:

Symptoms may include discomfort or pain, excess blinking and tear production,

with marked redness and swelling of the conjunctiva. Symptoms may include

redness, edema, drying, de-fatting and cracking of the skin.

Target Organs:

Skin, eyes, gastrointestinal tract.

**Potential Environmental Effects:** 

See Section 12 from more information.

<u>Section 3: Composition / Information on Ingredients:</u>

Ingredient

CAS#

Percent

Dodecylbenzene Sulfonic Acid (Alternative CAS# 27176-87-01)

68584-22-5

1-5

**Section 4: First Aid Measures:** 

**Eye Contact:** 

Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper

and lower lids occasionally. If irritation persists, seek medical attention.

**Skin Contact:** 

Thoroughly wash all exposed areas with soap and water for at least 15 minutes. Remove

any contaminated clothing & wash before reusing. If itching and redness persist, seek

medical attention.

Inhalation:

Inhalation of mists may cause upper respiratory tract irritation.

Ingestion:

If accidentally swallowed, DO NOT induce vomiting. Give large amounts of water or milk.

Seek medical attention immediately.

General Advice:

In case of accident or if you feel unwell, seek medical advice immediately. Show the label

or SDS where possible.

Note to Physicians:

Symptoms may not appear immediately.

1

## SAFETY DATA SHEET

Purple Power Prime-Shine Car Wash with Carnauba Wax

Section 5: Fire Fighting Measures:

Flammability:

Not Flammable by WHMIS/OSHA Criteria.

Means of Extinguishing:

Suitable extinguishing media:

Use water fog, alcohol foam, carbon dioxide or dry chemical.

Note:

Water fog or foam may cause frothing of the product.

Unsuitable Extinguishing Media:

Not Available.

**Products of Combustion:** 

Not Available.

**Explosion Data:** 

Sensitivity to Mechanical Impact:

Not Available.

Sensitivity to Static Discharge:

Not Available.

**Protection of Firefighters:** 

Keep Upwind of fire. Wear full fire-fighting turn-out gear, (full Bunker

gear), and respiratory protection (SCBA)

Section 6: Accidental Release Measures:

Personal Precautions:

Use personal protection recommended in section 8. Isolate the hazard area and deny

entry to unnecessary and unprotected personnel.

**Environmental Precautions:** 

Not Available.

**Methods for Containment:** 

Contain and/or absorb spill with inert material, (e.g. sand, vermiculite), then place in a

suitable container. Use appropriate Personal Protective Equipment, (PPE).

Methods for Clean-up: Other Information: Scoop up material and place in a disposal container. Provide ventilation.

Not Available.

Section 7: Handling and Storage:

Handling: Storage: Do not get in eyes, on skin or clothing. Do not swallow. Wash thoroughly after handling

Do not allow to freeze.

Section 8: Exposure Controls/Personal Protections:

Exposure Guidelines:

Ingredient Exposure Limits

Dodecylbenzene Sulfonic Acid:OSHA-PELACGIH-TLVPercent $1mg/m^3$  $0.2 mg/m_3$ < 5%Sodium Hydroxide: $2 mg/m^3$  $2 mg/m^3$ < 1%

**Engineering Controls:** 

Use ventilation adequate to keep exposures, (airborne levels of dust, fume,

vapor, etc.), below recommended exposure limits.

**Personal Protective Equipment:** 

Eye/Face Protection:

Splash goggles or safety glasses.

**Hand Protection:** 

Wear Rubber gloves.

Skin and Body Protection:

None normally needed.

**General Hygiene Considerations:** 

Handle according to established industrial hygiene and safety practices.

**Section 9: Physical and Chemical Properties:** 

Appearance and Odor:

Clear red liquid with cherry odor

Physical State:

Liquid

pH:

9 - 10

Freezing Point:

~0°C (~32°F)

Boiling Point:

~100°C (~212°F)

Flash Point (Method Used):

>212°F (PMCC)

ration Rate (Butyl Acetate= 1):

<1.0

Not Determined Not Determined

Pressure (mm Hg.):

Not Determined

## SAFETY DATA SHEET

Purple Power Prime-Shine Car Wash with Carnauba Wax

Vapor Density (AIR=1): Not Determined

Specific Gravity:1.021Solubility in Water:Complete

Melting Point: ~100°C (~212°F)
Auto-Ignition Temperature: Not Determined

Percent Volatile, wt%:

## Section 10: Stability and Reactivity:

Stable under normal storage conditions

Conditions to Avoid: Mixing or blending with strong oxidizing agents

**Incompatibility (Materials to Avoid):** Strong Oxidizing agents

Hazardous Decomposition or Byproducts: Carbon monoxide, carbon dioxide, nitrogen and sulfur oxides and

various hydrocarbons

Hazardous Polymenzation: Will Not Occur

## **Section 11: Toxicology Information:**

#### **Dodecylbenzene Sulfonic Acid:**

**Acute Hazards:** 

Inhalation: Inhalation of mists may cause upper respiratory tract irritation

**Skin Contact:** May cause moderate irritation

**Eye Contact:** Direct contact may cause eye irritation with redness and tearing

**Ingestion:** Swallowing may cause gastrointestinal disturbances

Chronic Hazards: None currently known

**Medical Conditions** 

Aggravated By Exposure:

May aggravate an existing dermatitis

Carcinogen: None of the components is listed as a carcinogen or potential

carcinogen by IARC, NTP, ACGIH or OSHA.

Acute Toxicity Values: Benzene Sulfonic acid, C10-16-alkyl derivs: LD50 Oral Rat: 1350 mg/kg

## **Section 12: Ecological Information:**

Ecotoxicity: Not Available
Persistence/Degradability: Not Available
Bioaccumulation/Accumulation: Not Available

**Mobility in Environment:** Not Available

## Section 13: Disposal Considerations:

**Disposal Instructions:** This material must be disposed of in accordance with all local, state, provincial,

and federal regulations.

## **Section 14: Transportation Information:**

**Proper Shipping Name:** Not D.O.T. Regulated

Hazard Class: N/A
ID Number: N/A
Packing Group N/A
IATA: N/A

## **Section 15: Regulatory Information:**

## **Chemical Inventories:**

TSCA: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical

Substances Inventory.

SARA Section 311: Acute Health

## SAFETY DATA SHEET

Purple Power Prime-Shine Car Wash with Carnauba Wax

Section 313:

Toxic Release Inventory Chemical:

None Listed

**California Safe Drinking Water Enforcement Act (Prop 65):** This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm at levels which would require a warning under the statute.

Pennsylvania (Worker and Community Right-to-Know Act):

**Pennsylvania Special Hazardous Substances List:** This product contains the following components that appear on the PA list:

Component

CAS#

Amount

Dodecylbenzene Sulfonic Acid

68584-22-5

< 5%

**New Jersey Right-to-Know Hazardous Substance List:** This product contains the following components that appear on the NJ list:

Component	CAS#	Amount
Dodecylbenzene Sulfonic Acid	68584-22-5	< 5%
Sodium Hydroxide	1310-73-2	< 1%

Massachusetts Substance List: This product contains the following components that appear on the MA list:

Component

CAS#

Amount

Sodium Hydroxide

1310-73-2

< 1%

## **Section 16: Other Information:**

NFPA Health Hazard Flammability Instability  $1 \\ 0 \\ 0$  HMIS Health Hazard Flammability Physical Hazard  $1 \\ 0 \\ 0$ 

Prepared By:

Aiken Chemical Company, Inc

12 Shelter Drive Greer, SC 29650

Preparation/Revision Date:

May 29, 2015

Revision Date: Revision Note

General Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Klean-Strip Muriatic Acid

Company Name:

W. M. Barr

Phone Number:

2105 Channel Avenue

(901)775-0100

Memphis, TN 38113

Web site address: **Emergency Contact:**  www.wmbarr.com

3E 24 Hour Emergency Contact W.M. Barr Customer Service

(800)451-8346 (800)398-3892

Information: Intended Use:

Cleaning and Surface Preparation

Synonyms:

GMA58

Additional Information

This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

# 2. HAZARDS IDENTIFICATION

Corrosive To Metals, Category 1 Acute Toxicity: Inhalation, Category 3 Skin Corrosion/Irritation, Category 1A-1C

Serious Eye Damage/Eye Irritation, Category 1

Specific Target Organ Toxicity (single exposure), Category 3





**GHS Signal Word:** 

Danger

**GHS Hazard Phrases:** 

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

**GHS Precaution Phrases:** 

P234: Keep only in original container.

P260: Do not breathe fume/gas/mist/vapors/spray. P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** 

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment see label.

P363: Wash contaminated clothing before reuse. P390: Absorb spillage to prevent material damage.

GHS Storage and Disposal

P403+233: Store container tightly closed in well-ventilated place.

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**GHS** format

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98:

P405: Store locked up.

P501: Dispose of contents/container according to local, state and federal regulations.

Rating System:



Flammability Instability
Health

NFPA: Special Hazard

HMIS:

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic):

Inhalation Acute Exposure Effects:

Inhalation of muriatic acid vapors can cause irritation of respiratory tract, burns,

pulmonary edema, and coughing.

Inhalation long term exposure:

Long term exposure to muriatic acid can cause erosion of the teeth.

Skin Contact Acute Exposure Effects:

May cause severe burns, irritation, pain, and ulceration.

Skin contact long term exposure:

May cause dermatitis.

Eye Contact Acute Exposure Effects:

May cause severe burns, eye damage, and blindness.

Eye contact long term exposure:

No effects are known.

Ingestion Acute Exposure Effects:

Poison. May be fatal if swallowed. May cause severe irritation, perforation of the intestinal tract, and burns in mouth, pharynx, and gastrointestinal tract. May cause intense pain, nausea, vomiting, bleeding, circulating collapse, and shock.

Medical Conditions Generally Respiratory system (including asthma and other breathing disorders)
Aggravated By Exposure:

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#

**Hazardous Components (Chemical Name)** 

Concentration

RTECS#

7647-01-0

Hydrochloric acid {Hydrogen chloride}

31.0 -35.0 %

MW4025000

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## 4. FIRST AID MEASURES

Emergency and First Aid

Inhalation:

Procedures: If user e

If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered. Obtain medical attention immediately.

Skin Contact:

Wash with soap and large quantities of water and remove contaminated clothing, jewelry, and shoes immediately. Wash for 15 minutes. If irritation persists, seek medical attention.

Eye Contact:

Immediately begin to flush with large quantities of water, remove any contact lens. Continue to flush with water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all of the eye and lid tissues. Flushing the eyes with water within several seconds is essential to achieve maximum effectiveness. Seek immediate medical attention.

Ingestion:

Do not induce vomiting. Give milk of magnesia or large amounts of water. Never give anything by mouth to an unconscious person. Call your poison control center, hospital emergency room or physician immediately for instructions. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops.

Signs and Symptoms Of Exposure:

See potential health effects.

Note to Physician:

Call your local poison control center for further information.

The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage.

# 5. FIRE FIGHTING MEASURES

Flash Pt:

No data.

Explosive Limits:

LEL: No data.

UEL: No data.

Autoignition Pt:

No data.

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Fire Fighting Instructions:

Keep unnecessary people away, isolate hazard area and deny entry. Wear NIOSH approved positive -pressure self-contained breathing apparatus. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame. Move

containers from fire if it can be done without risk.

Flammable Properties and

Hazards:

Non-flammable

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# 6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Small Spills:

Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment. Take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. Material may be neutralized with baking soda, soda ash, or dilute caustic soda. Stay upwind, out of low areas, and ventilate closed spaces before entering.

### Large Spills:

Evacuation of surrounding area may be necessary for large spills. Wear appropriate personal protective equipment. Completely contain spilled material with dikes, sandbags, etc. Shut off ventilation system if needed. Reprocess or reuse if possible. Neutralize with soda ash or dilute caustic soda. Collect with appropriate absorbent and place into suitable container. Keep out of sewers and water supplies. This material is acidic and may lower the pH of the surface waters with low buffering capacity.

## 7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

When mixing, slowly add acid to water to minimize heat generation and spattering. Never add water to acid.

Keep container tightly closed when not in use. Keep container properly labeled.

Storing:

Precautions To Be Taken in Keep container tightly closed when not in use. Store in a cool, dry place away from direct sunlight and heat to avoid container deterioration. Avoid storage at extreme high or low temperatures. Protect from freezing. Keep container properly labeled. Keep separated from incompatible substances.

> Store in acid-resistant plastic, glass containers, or rubber-lined steel containers. Do not store in aluminum containers or use aluminum fittings or transfer lines.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS# **Partial Chemical Name OSHA TWA ACGIH TWA** Other Limits 7647-01-0 Hydrochloric acid {Hydrogen chloride} CEIL: 5 ppm CEIL: 2 ppm) No data.

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Respiratory Equipment (Specify Type):

Where vapor concentration exceeds or is likely to exceed applicable exposure limits, a NIOSH approved respirator with acid gas cartridges is required. When an air-purifying respirator is not adequate or for spills and/or emergencies of unknown concentrations, a NIOSH approved self-contained breathing apparatus or airline respirator with full-face piece is required. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV.

For occasional consumer use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator. A dust mask does not provide protection against vapors.

Eye Protection:

Safety glasses with side shields. Wearing chemical goggles with a face shield is recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn.

Provide an emergency eyewash station or quick drench shower in the immediate work area.

Protective Gloves:

Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with products.

Other Protective Clothing:

Wear chemical resistant clothing and rubber boots when potential for contact with the material exists.

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

Engineering Controls (Ventilation etc.):

Use closed system when possible. Provide local exhaust ventilation where vapor or mist may be generated. Ensure compliance with applicable exposure limits.

Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, burning sensations, or eye-watering -- Stop -- ventilation is inadequate. Leave area immediately.

Practices:

Work/Hygienic/Maintenance A source of clean water should be available in the work area for flushing of eyes and skin.

> Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. Discard any clothing or other protective equipment that cannot be decontaminated.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor: No data available.

Melting Point: No data. 123.00 F **Boiling Point:** Autoignition Pt: No data. Flash Pt: No data.

**Explosive Limits:** LEL: No data. UEL: No data.

Specific Gravity (Water = 1): No data. **Bulk density:** 9.660 LB/GA

Vapor Pressure (vs. Air or No data.

mm Hg):

Vapor Density (vs. Air = 1): No data. **Evaporation Rate:** No data. Solubility in Water: No data.

Percent Volatile: 99.999 % by weight.

10. STABILITY AND REACTIVITY

Unstable [ ] Stable [X] Stability:

Conditions To Avoid -No data available.

Incompatibility - Materials To Incompatible with strong oxidizing agents, strong caustics, alkalis and alkali metals, Avoid:

mercuric sulfate, perchloric acid, carbides of calcium, cesium, rubidium, acetylides of cesium and rubidium, phosphides of calcium and uranium, lithium silicide, cyanides (which may produce lethal concentrations of hydrocyanic acid), and common and active

metals (which produce flammable hydrogen gas).

Hazardous Decomposition Or Thermal decomposition may produce hydrogen chloride vapors.

Byproducts:

instability:

Possibility of Hazardous Will occur [ ] Will not occur [X]

Reactions:

Conditions To Avoid -No data available.

Hazardous Reactions:

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11. TOXICOLOGICAL INFORMATION

Toxicological Information:

Refer to section 2 for acute and chronic effects.

Chronic Toxicological

Long term exposure to muriatic acid can cause erosion of the teeth.

Effects:

CAS#

Hazardous Components (Chemical Name)

NTP

**IARC** 

**ACGIH** 

**OSHA** 

7647-01-0

Hydrochloric acid {Hydrogen chloride}

n.a.

3

Α4

n.a.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose in accordance with applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Hydrochloric acid

**CORROSIVE** 

**DOT Hazard Class: UN/NA Number:** 

UN1789

Packing Group:

Ш



# 15. REGULATORY INFORMATION

This material meets the EPA [X] Yes [ ] No Acute (immediate) Health Hazard

'Hazard Categories' defined [X] Yes [] No Chronic (delayed) Health Hazard

for SARA Title III Sections

311/312 as indicated:

[ ] Yes [X] No Fire Hazard

[ ] Yes [X] No Sudden Release of Pressure Hazard

[X] Yes [] No Reactive Hazard

CAS#

**Hazardous Components (Chemical Name)** 

Other US EPA or State Lists

7647-01-0

Hydrochloric acid {Hydrogen chloride}

CAA HAP, ODC: HAP; CWA NPDES: No; TSCA: Yes -

Inventory, 4 Test; CA PROP.65: No

Regulatory Information

All components of this material are listed on the TSCA Inventory or are exempt.

Statement:

16. OTHER INFORMATION

Revision Date:

04/16/2015

Preparer Name:

W.M. Barr EHS Department

(901)775-0100

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of

any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability

and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information

must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

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This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0

SDS Number: 660000000228

Revision Date: 05/19/2015

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: MURPHY OIL SOAP WOOD CLEANER LIQUID - ORIGINAL

Product code

: 200000028236

: B02906500003

Manufacturer or supplier's details

Company

Colgate-Palmolive Co

300 Park Avenue New York, NY 10022

Telephone

: US: Consumer Affairs - 1-800-468-6502

Emergency telephone

number

: For emergencies involving spill, leak, fire, exposure or acci-

dent call CHEMTREC (24hr) at (800) 424-9300 or

(703) 527-3887.

**Medical Emergency** 

(24HR):

For MEDICAL EMERGENCIES involving this product call:

(888) 489-3861

Recommended use of the chemical and restrictions on use

Recommended use

A formulated multi-purpose cleaner

### **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

• •	
Appearance	liquid
Colour	amber

**GHS Classification** 

Skin irritation

: Category 2

Eye irritation

: Category 2A

Skin sensitisation

: Category 1

**GHS Label element** 

Hazard pictograms

 $\diamondsuit$ 

Signal word

: Warning



This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0

SDS Number: 660000000228

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Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Precautionary statements

: Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion

P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

**Potential Health Effects** 

Inhalation

: No adverse effects due to inhalation are expected.

Skin

: May cause skin irritation upon prolonged contact.

Eyes

: Causes eye irritation on direct contact.

Ingestion

: May be harmful if swallowed in large quantities.

Aggravated Medical Condi-

tion

: None known.

Carcinogenicity:

**IARC** 

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**ACGIH** 

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

gen by ACGIH.

**OSHA** 

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

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by NTP.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Hazardous components

Chemical Name	CAS-No.	Concentration (%)
SODIUM HYDROXIDE	1310-73-2	>= 1 - < 5
CITRONELLA (CYMBOPOGON NARDUS) OIL	8000-29-1	>= 0.1 -<1

#### **SECTION 4. FIRST AID MEASURES**

If inhaled

: Remove victim to fresh air. Get medical attention, if symp-

toms persist.

In case of skin contact

: Flush skin with large amounts of water. If irritation develops

and persists, get medical attention.

In case of eye contact

: Flush eyes with water at least 15 minutes. Get medical atten-

tion if eye irritation develops or persists.

If swallowed

: Drink 8 ounces of clear water. Get medical attention.

Most important symptoms

and effects, both acute and

delayed

: Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media

: Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

Special protective equipment

for firefighters

·

: Self-contained breathing apparatus and full protective clothing

should be worn when fighting chemical fires.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Use personal protection recommended in Section 8 of the

SDS.

Methods and materials for containment and cleaning up

: Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of wa-

ter.

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Version 1.0 SDS Number: 660000000228 Revision Date: 05/19/2015

#### **SECTION 7. HANDLING AND STORAGE**

Conditions for safe storage

: Store at controlled room temperature at 20-25°C (68-77°F).

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
	in the first of the second of	(Form of	ters / Permissible	
		exposure)	concentration	
SODIUM HYDROXIDE	1310-73-2	C	2 mg/m3	ACGIH
		С	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		С	2 mg/m3	OSHA P0

**Engineering measures** 

: In an industrial work environment, no special precautions or control measures are required.

## Personal protective equipment

Respiratory protection

: No personal respiratory protective equipment normally re-

quired.

Protective measures

: In an industrial work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact may require protective gloves. For consumer use, no unusual

precautions are necessary.

Hygiene measures

: In an industrial work environment, avoid eye and prolonged

skin contact.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

: liquid

Colour

: amber

pН

: 11.0

Flash point

: > 200 °F

Density

: 1.0 g/cm3

#### **SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous reac-

: Hazardous polymerisation does not occur.

tions



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Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

: None known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Components:

SODIUM HYDROXIDE:

Acute oral toxicity

: LD50 (Rabbit): 500 mg/kg

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: Remarks: No data available

CITRONELLA (CYMBOPOGON NARDUS) OIL:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: LD50 (Rabbit): > 5,000 mg/kg Method: No information available.

#### Skin corrosion/irritation

Causes skin irritation.

Components:

SODIUM HYDROXIDE:

Remarks: No data available

## CITRONELLA (CYMBOPOGON NARDUS) OIL:

Result: Severe skin irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

SODIUM HYDROXIDE:

Remarks: No data available

### CITRONELLA (CYMBOPOGON NARDUS) OIL:

Result: Risk of serious damage to eyes.

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#### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

#### Components:

#### SODIUM HYDROXIDE:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal Remarks: No data available

#### CITRONELLA (CYMBOPOGON NARDUS) OIL:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal

Result: May cause sensitisation by skin contact.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

#### **SECTION 12. ECOLOGICAL INFORMATION**

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental, Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients,



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and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable) or testing conducted on the final product (i.e., This product is biodegradable).

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues

 Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in sewers, any body of water or on the ground.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT

: Not regulated.

TDG

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

#### International Regulation

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

### **SECTION 15. REGULATORY INFORMATION**

**OSHA Hazards** 

: Toxic by ingestion

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SODIUM HYDROXIDE	1310-73-2	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Acute Health Hazard



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**SARA 302** 

: No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

**SARA 313** 

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

SODIUM HYDROXIDE 1310-73-2

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

SODIUM HYDROXIDE 1310-73-2

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### Massachusetts Right To Know

SODIUM HYDROXIDE 1310-73-2 TRISODIUM NITRILOTRIACETATE 5064-31-3

#### Pennsylvania Right To Know

WATER Water
Sodium tallate 61790-45-2
SODIUM HYDROXIDE 1310-73-2

## **New Jersey Right To Know**

WATER Water
Sodium tallate 61790-45-2
SODIUM HYDROXIDE 1310-73-2

#### California Prop 65

 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

**TSCA** 

: All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)



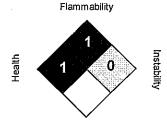
This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**





Special hazard.

#### HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Disclaimer: The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.

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# MATERIAL SAFETY DATA SHEET

## PRODUCT AND COMPANY IDENTIFICATION

Product Name: KRUD KUTTER® GRAFFITI REMOVER

Synonyms: Not applicable

Molecular Formula: Not applicable Molecular Weight: Not applicable

Supplier:

Supreme Chemicals of Georgia, Inc. 1535 Oak Industrial Lane, Suite B

Cumming, GA 30041

USA

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Emergency Telephone:

(CHEMTREC) 800-424-9300

(Non-emergency Telephone) 800-466-7126

Intended Use: Cleaning agent to remove

graffiti

## **HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Physical State: Liquid

Color: Clear Odor: Sweet

WARNING!

May be harmful if inhaled, absorbed through skin, or swallowed.

May cause eye and skin irritation.

Mist or vapors may be irritating to the eyes, nose, throat and lungs.

### Potential Health Effects

**Inhalation:** May be harmful; causes irritation. Exposure irritates the respiratory system and may cause asthmatic breathing and other systemic effects.

Eye Contact: May cause eye irritation. Exposure may cause eye tearing, redness, and discomfort.

Skin: May be harmful; May cause skin irritation. Exposure may cause redness, itching, inflammation and other systemic effects.

**Ingestion:** Not expected to be an ingestion hazard with prescribed use. Harmful. Exposure may cause vomiting, nausea, diarrhea or other systemic effects.

Chronic Health Effects: May cause blood disorders based on animal data. May cause liver damage based on animal data. May cause kidney damage based on animal data.

Target Organ(s): Eye, skin, blood, central nervous system, liver, kidney

OSHA Regulatory Status: Hazardous; Consumer Product Use: Exempt

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous component	CAS-No.	Weight %
benzyl alcohol	100-51-6	< 25
ethylene glycol monobutyl ether	111-76-2	< 15

components not listed are not hazardous or are below reportable limits

## FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes before reuse.

**Ingestion:** If swallowed, DO NOT induce vomiting, unless directed by medical personnel. Get medical attention. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

## 5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, dry chemical, carbon dioxide and alcohol foam

Unsuitable Extinguishing Media: Not applicable

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: None known

Hazardous Combustion Products: Carbon oxides

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### ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment. See Section 8.

Spill Cleanup Methods: Small Liquid Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spillages: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas.

## HANDLING AND STORAGE

**Handling:** Personal Precautionary Measures: Wear appropriate personal protective equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: None

Storage: Keep container closed. Keep out of reach of children.

### EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Limits:**

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Chemical Name	Source	Туре	Exposure	Notes
Chemical Manie	Source	Type	Limits	Notes
2-Butoxyethanol (EGBE)	ACGIH	TWA	20 ppm	Eye, upper respiratory irritation
2-Butoxyethanol	OSHA	TWA	50 ppm	Skin designation
2-Butoxyethanol	NIOSH	REL	5 ppm	Skin designation
2-Butoxyethanol	NIOSH	IDLH	700 ppm	Skin designation
2-Butoxyethanol	California OSHA	TWA	25 ppm	Skin designation
2-Butoxyethanol	Alberta	TWA	20 ppm	Skin designation
2-Butoxyethanol (EGBE)	British Columbia	TWA	20 ppm	Skin designation
2-Butoxyethanol	Ontario	TWAEV	20 ppm	Skin designation
2-Butoxyethanol	Quebec	TWA	25 ppm	Skin designation
2- Butoxietanol	Mexico	TWA	26 ppm	Skin designation
Benzyl alcohol	AIHA OELs	WEELs	10 ppm	

**Engineering Controls:** Not generally required when handling product. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Eye Protection: Wear splash goggles and a face shield where a splash hazard exists. Wear a full-face respirator, if needed.

**Hand Protection:** Wear chemical-resistant gloves. Contact health and safety professionals for additional information.

Skin Protection: Wear disposable coveralls, lab coat, or apron to prevent skin contact.

## PHYSICAL AND CHEMICAL PROPERTIES

Color: Clear Odor: Sweet

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Physical State: Liquid pH: No data available

Boiling Point: 212 °C (413° F) Melting Point: < 1.1 °C (< 30° F) Flash Point: > 93.3° C (200° F) Evaporation Rate: < 1 (Water = 1)

Flammability Limit – Upper (%): No data available Flammability Limit – Lower (%): No data available

Vapor Pressure: 17 mm Hg (@ 20°C) (68° F)

Vapor Density (Air=1): 3.2 Specific Gravity: 1.0 – 1.02 Solubility in Water: Complete

Partition Coefficient (n-Octanol/water): No data available

Autoignition Temperature: Not applicable Decomposition Temperature: No data available

Volatile Organic Compounds (VOC): No data available

Viscosity: No data available Percent Volatile: No data available

## 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known

Incompatible Materials: Strong oxidizing agents, strong acids

Hazardous Decomposition Products: Carbon oxides

Possibility of Hazardous Reactions: Will not occur.

## 11 TOXICOLOGICAL INFORMATION

Toxicity data is available for the components upon request.

Chronic Toxicity: Ethylene Glycol Monobutyl Ether: Long term exposure may cause damage to blood, kidneys and liver.

**Listed Carcinogens** 

Chemical Name	IARC	NTP	OSHA	ACGIH
2-Butoxyethanol	3-Not classifiable	Not Listed	Not Listed	A3 – Confirmed
	in humans			animal carcinogen
	Limited data in			with unknown
	animals			relevance to
				humans

Acute (Immediate)

# 12 **ECOLOGICAL INFORMATION** Krud Kutter® Graffiti Remover is biodegradable. 13 **DISPOSAL CONSIDERATIONS** General Information: Dispose in accordance with applicable federal, state, and local regulations. Disposal Methods: No specific disposal method required. Container: Since emptied containers retain product residue, follow label warnings even after container is emptied. Triple rinse containers and puncture containers before disposing into landfill. 14 TRANSPORT INFORMATION **DOT**: Not regulated **TDG**: Not regulated **IATA:** Not regulated **IMDG**: Not regulated 15 REGULATORY INFORMATION Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information. WHMIS Classification: D1A, D2B Mexico (NOM-018-STPS-2000): Benzyl alcohol: 2-1-0-2; 2-Butoxyietanol: 2-2-0-3 **Inventory Status** This product or all components are listed on the following inventory: TSCA DSL Inventory: No information available **US Regulations** CERCLA Hazardous Substance List (40 CFR 302.4): Component Reportable Quantity Glycol ethers SARA Title III Section 302Extremely Hazardous Substance (40 CFR 355, Appendix A): Regulated as generic under certain glycol ethers Section 311/312 (40 CFR 370):

Fire

Reactive

Pressure Generating

Chronic (Delayed)

Section 313 Toxic Release Inventory (40 CFR 372):

Component	CAS No.	Concentration
Certain glycol ethers	111-76-2	< 15%

Clean Air Act (CCA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants: None

Clean Air Act (CAA) Section 112(i) High-Risk Hazardous Air Pollutants (40 CFR 63.74): None

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None

Clean Water Act Section 307 Toxic Pollutants (40 CFR 401.15): None

Clean Water Act Section 311 Hazardous Chemical (40 CFR 116.4): None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

**Drug Enforcement Act:** None

TSCA: Section 8(d) Health & Safety Data Reporting (40 CFR 716, Subpart B): 2-butoxyethanol

## **State Regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): None

Massachusetts Right-To-Know List: 2- Butoxyethanol, benzyl alcohol

Minnesota Hazardous Substances List: 2- Butoxyethanol (EGBE), benzyl alcohol

New Jersey Right-To-Know List: 2-Butoxyethanol

Pennsylvania Right-To-Know Substances: 2-Butoxyethanol, benzyl alcohol

## 16 OTHER INFORMATION

### **Hazard Ratings**

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	2	1	0	

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	2*	1	0

0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*- Chronic health effect

Revision Information: Updated all sections of the MSDS.

Prepared by: Supreme Chemicals of Georgia, Inc.

Issue Date: 06/12/07

Supersedes Date: 02/24/06

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the

sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

• . .

## 1 Identification of the substance and manufacturer

Trade name:

CONTACT CLEANER

Product code:

0006201526

Product category

PC35 Washing and cleaning products (including solvent based products)

Manufacturer/Supplier:

Seymour of Sycamore
917 Crosby Avenue
Sycamore, IL 60178
Phone: 815-895-9101 www.seymourpaint.com

Emergency telephone number:

CHEMTEL 1-800-255-3924, or 813-248-0585.

### 2 Hazard(s) identification

Classification of the substance or mixture

Press. Gas H280 Contains gas under pressure; may explode if heated.

Eye Irrit. 2A H319 Causes serious eye irritation. H351 Suspected of causing cancer.

**GHS Hazard pictograms** 



Signal word **Hazard statements**  Warning Contains gas under pressure; may explode if heated.

Causes serious eye irritation. Suspected of causing cancer.

Precautionary statements

Obtain special instructions before use.

Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store locked up.

Protect from sunlight. Store in a well-ventilated place.

Dispose of contents/container in accordance with local/regional/national/international regulations.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

Chemical Description: This product is a mixture of the substances listed below with nonhazardous additions.

Dangerous components:

127-18-4 perchloroethylene

97.0%

#### 4 First-aid measures

After skin contact:

Remove contaminated clothing. Wash exposed area with soap and water.

After eye contact: After swallowing:

Rinse opened eye for several minutes under running water.

Rinse out mouth and then drink plenty of water. Rinse mouth with water. Do not induce vomiting.

Most important symptoms and

effects:

No further relevant information available.

Indication of any immediate medical

attention needed:

No further relevant information available.

## 5 Fire-fighting measures

Special hazards: Protective equipment for No further relevant information available.

firefighters:

No special measures required.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Methods and material for containment and cleaning up: Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

#### 7 Handling and storage

Precautions for safe handling Storage requirements:

Use only in well ventilated areas.

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

Revised On 02/08/2016

Trade name: CONTACT CLEANER

(Contd. of page 1)

8 Exposure controls/personal protection

Components with limit values that require monitoring at the workplace

127-18-4 perchloroethylene

PEL (USA) Long-term value: 100 ppm Ceiling limit value: 200; 300\* ppm \*5-min peak in any 3 hrs

REL (USA) Minimize workplace exp. concs.: Pocket Guide App. A

Short-term value: 685 mg/m³, 100 ppm Long-term value: 170 mg/m³, 25 ppm TLV (USA)

Ingredients with biological limit values:

127-18-4 perchloroethylene

BEI (USA) 3 ppm

Medium: end-exhaled air

Time: prior to shift

Parameter: Tetrachloroethylene

0.5 mg/L Medium: blood

Time: prior to shift Parameter: Tetrachloroethylene

lienic protection:

Keep away from foodstuffs and animal feed. Wash hands after use.

Wash hands after use. Do not eat or drink while working.

Breathing equipment: Hand protection:

Eye protection:

Not required.

Nitrile gloves.

Protective gloves. The glove material must be impermeable and resistant to the substance.

Not required.

9 Physical and chemical properties

Odor:

Aromatic Odor threshold:

Not determined. Not determined.

pH-value: Melting point/Melting range Boiling point:

Undetermined. 121 °C (250 °F) -1 °C (30 °F)

Decomposition temperature:

Not determined.

Not determined.

Auto igniting:

Flash point:

Product is not self-igniting.

Danger of explosion: Lower Explosion Limit: **Upper Explosion Limit:** 

Not determined. Not determined. 19 hPa (14 mm Hg) Not determined.

Vapour density Evaporation rate Partition coefficient: n-octonal/water:

Vapor pressure at 20 °C (68 °F):

Not applicable. Not determined. Not determined.

Solubility: Viscosity:

Not determined.

VOC content:

VOC content (less exempt solvents): 0.0 % MIR Value: Solids content: 3.0 %

10 Stability and reactivity

Conditions to avoid:

No decomposition if used according to specifications.

Possibility of hazardous reactions: Incompatible materials:

No dangerous reactions known. No further relevant information available.

Hazardous decomposition:

No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects: No data available.

No irritant effect.

Skin effects: Eye effects: Sensitization:

No irritating effect. No sensitizing effects known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

127-18-4 perchloroethylene

2A |R

NTP (National Toxicology Program)

127-18-4 perchloroethylene

|L

Trade name: CONTACT CLEANER

(Contd. of page 2)

12 Ecological information

Aquatic toxicity:

Hazardous for water, do not empty into drains.

Persistence and degradability:

The product is degradable after prolonged exposure to natural weathering processes. No further relevant information available.

Bioaccumulative potential: Mobility in soil:

Ecotoxical effects:

No further relevant information available.

Remark: Other adverse effects:

Toxic for fish No further relevant information available.

13 Disposal considerations

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Recommendation: Completely empty cans should be recycled.

14 Transport information

**UN-Number** 

DOT

UN1950 UN1950

DOT ADR Aerosols, non-flammable, containing substances in Division 6.1, Packing Group I or II

1950 Aerosols, ENVIRONMENTALLY HAZARDOUS

Transport hazard class(es):

Class

Marine pollutant:

2.2 Yes

Special marking (ADR): Special marking (IATA): Special precautions for user:

Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)

EMS Number:

Warning: Gases F-A,S-F

UN "Model Regulation":

UN1950, Aerosols, ENVIRONMENTALLY HAZARDOUS, 2.2 (6.1)

15 Regulatory information

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product are listed.

SARA Section 313 (Specific toxic chemical listings):

127-18-4 perchloroethylene

CPSC:

This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

127-18-4 perchloroethylene

CANADIAN ENVIRONMENTAL

PROTECTION ACT:

All hazardous ingredients for this product appear on the Canadian Domestice Substance List. WHMIS Symbols for Canada:

A - Compressed gas

D2B - Toxic material causing other toxic effects



EPA:

127-18-4 perchloroethylene

16 Other information

Contact:

Regulatory Affairs 02/08/2016 / -

Date of preparation / last revision



### LIME-A-WAY

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : LIME-A-WAY

Other means of identification : not applicable

Recommended use : Delimer

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.8 % - 2.3 %

Company : Ecolab Inc.

370 N. Wabasha Street

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 08/06/2014

### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

**Product AS SOLD** 

Skin corrosion : Category 1A Serious eye damage : Category 1

Product AT USE DILUTION

Skin corrosion : Category 1A
Serious eye damage : Category 1

#### **GHS** Label element

### **Product AS SOLD**

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash

contaminated clothing before reuse.

Storage:

## LIME-A-WAY

Store locked up. Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION
Hazard pictograms

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting, IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.

Storage: Store locked up: Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

: None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product AS SOLD** 

Pure substance/mixture

Mixture

Chemical Name uronium hydrogen sulphate

**CAS-No.** 21351-39-3

Concentration (%)

Urea oxirane, methyl-, polymer with oxirane

57-13-6 9003-11-6 10 - 30 1 - 5 0.1 - 1

### Product AT USE DILUTION

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

### **Product AS SOLD**

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

### LIME-A-WAY

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

Notes to physician : Treat symptomatically.

Product AT USE DILUTION

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing: Get medical attention immediately.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Use

a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

If swallowed Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

See toxicological information (Section 11)

### **SECTION 5. FIRE-FIGHTING MEASURES**

**Product AS SOLD** 

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

Specific hazards during fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

for fire-fighters

Special protective equipment : Use personal protective equipment.

Specific extinguishing

methods

: Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. In the event of fire

and/or explosion do not breathe fumes.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Product AS SOLD

: Ensure adequate ventilation. Keep people away from and upwind of Personal precautions,

913153 3/11

### LIME-A-WAY

protective equipment and emergency procedures

spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### **SECTION 7. HANDLING AND STORAGE**

**Product AS SOLD** 

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 50 °C

## Product AT USE DILUTION

Advice on safe handling

Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

### LIME-A-WAY

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Urea	57-13-6	TWA	10 mg/m3	WEEL

Engineering measures

: Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection

: Safety goggles Face-shield

Hand protection

: Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection

: Personal protective equipment comprising: suitable protective gloves,

safety goggles and protective clothing

Respiratory protection

: When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

Product AT USE DILUTION

Engineering measures

Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection

Safety goggles Face-shield

Hand protection

Wear the following personal protective equipment:

Standard glove type

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough:

Skin protection

Personal protective equipment comprising: suitable protective gloves.

safety goggles and protective clothing

Respiratory protection

When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD

Product AT USE DILUTION

Appearance

: liquid

: odorless

liquid light blue

Color Odor : clear, dark green

odorless

рΗ

: 0.1 - 0.2, 100 %

0.9 - 1.8

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## LIME-A-WAY

Flash point : not applicable

Odor Threshold : no data available

Initial boiling point and

Melting point/freezing point

boiling range

100 °C

: no data available

Evaporation rate : no data available Flammability (solid, gas) : no data available Upper explosion limit : no data available Lower explosion limit : no data available Vapor pressure : no data available Relative vapor density : no data available Relative density : 1.132 - 1.162

Water solubility

Solubility in other solvents

Partition coefficient: n-

octanol/water

: no data available

: soluble

: no data available

Autoignition temperature : no data available Thermal decomposition : no data available

Viscosity, kinematic : no data available Explosive properties no data available Oxidizing properties no data available Molecular weight no data available

VOC no data available

### SECTION 10. STABILITY AND REACTIVITY

**Product AS SOLD** 

Chemical stability

: Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid

: None known.

Incompatible materials

Bases

Metals

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

### **Potential Health Effects**

## LIME-A-WAY

**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes :: Causes serious eye damage.

Skin : Causes severe skin burns:

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

### Experience with human exposure

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

#### Toxicity

**Product AS SOLD** 

Acute oral toxicity : no data available
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye : no data available

irritation

Respiratory or skin

: no data available

sensitization

Carcinogenicity : no data available
Reproductive effects : no data available

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### LIME-A-WAY

Germ cell mutagenicity

: no data available

Teratogenicity

: no data available

STOT-single exposure

: no data available

STOT-repeated exposure

: no data available

Aspiration toxicity

: no data available

Ingredients

Acute oral toxicity

: uronium hydrogen sulphate

LD50 rat: > 2,000 mg/kg

Urea

LD50 rat: 8,471 mg/kg

Ingredients

Acute inhalation toxicity

: Urea

4 h LC50 rat: > 2.71 mg/l

oxirane, methyl-, polymer with oxirane

4 h LC50 rat: 0.147 mg/l

Ingredients

Acute dermal toxicity

: uronium hydrogen sulphate

LD50 rabbit: > 2,000 mg/kg

Urea

LD50 rat: 8,200 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD Ecotoxicity

**Environmental Effects** 

: This product has no known ecotoxicological effects.

**Product** 

Toxicity to fish

: no data available

Toxicity to daphnia and other

: no data available

aquatic invertebrates

: no data available

Toxicity to algae Ingredients

Toxicity to fish

: uronium hydrogen sulphate

96 h LC50 Fish: > 6,810 mg/l

Urea

96 h LC50 Fish: 127.9 mg/l

oxirane, methyl-, polymer with oxirane

96 h LC50 Fish: > 100 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

### LIME-A-WAY

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Product AS SOLD

Disposal methods : Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not re-

use empty containers.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

waste

: D002 (Corrosive)

#### Product AT USE DILUTION

Disposal considerations

Disposal methods Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-

use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

#### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 3265

Description of the goods : Corrosive liquid, acidic, organic, n.o.s.

(uronium hydrogen sulphate)

Class : 8 Packing group : II Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 3265

: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. Description of the goods

(uronium hydrogen sulphate)

: 8 Class Packing group : II

Marine pollutant : no

## Product AT USE DILUTION

## LIME-A-WAY

Not intended for transport.

### **SECTION 15. REGULATORY INFORMATION**

### **Product AS SOLD**

**EPCRA - Emergency Planning and Community Right-to-Know** 

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Acute Health Hazard

**SARA 302** 

: SARA 302: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

**SARA 313** 

: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## California Prop 65

This product doe's not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

### 1907/2006 (EU):

not determined

## United States TSCA Inventory:

On TSCA Inventory

### Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL.

## Australia Inventory of Chemical Substances (AICS) :

not determined

### New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

## Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

## Korea. Korean Existing Chemicals Inventory (KECI):

not determined

## Philippines Inventory of Chemicals and Chemical Substances (PICCS):

not determined

## China. Inventory of Existing Chemical Substances in China (IECSC):

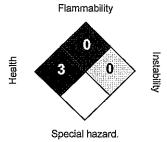
not determined

## LIME-A-WAY

## **SECTION 16. OTHER INFORMATION**

## Product AS SOLD

NFPA:

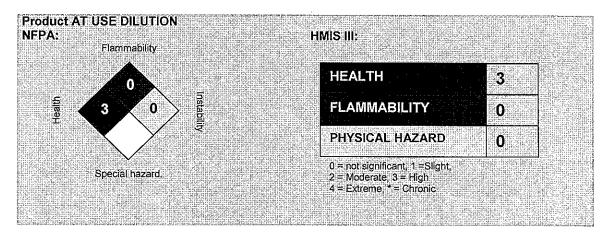


#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High

4 = Extreme, \* = Chronic



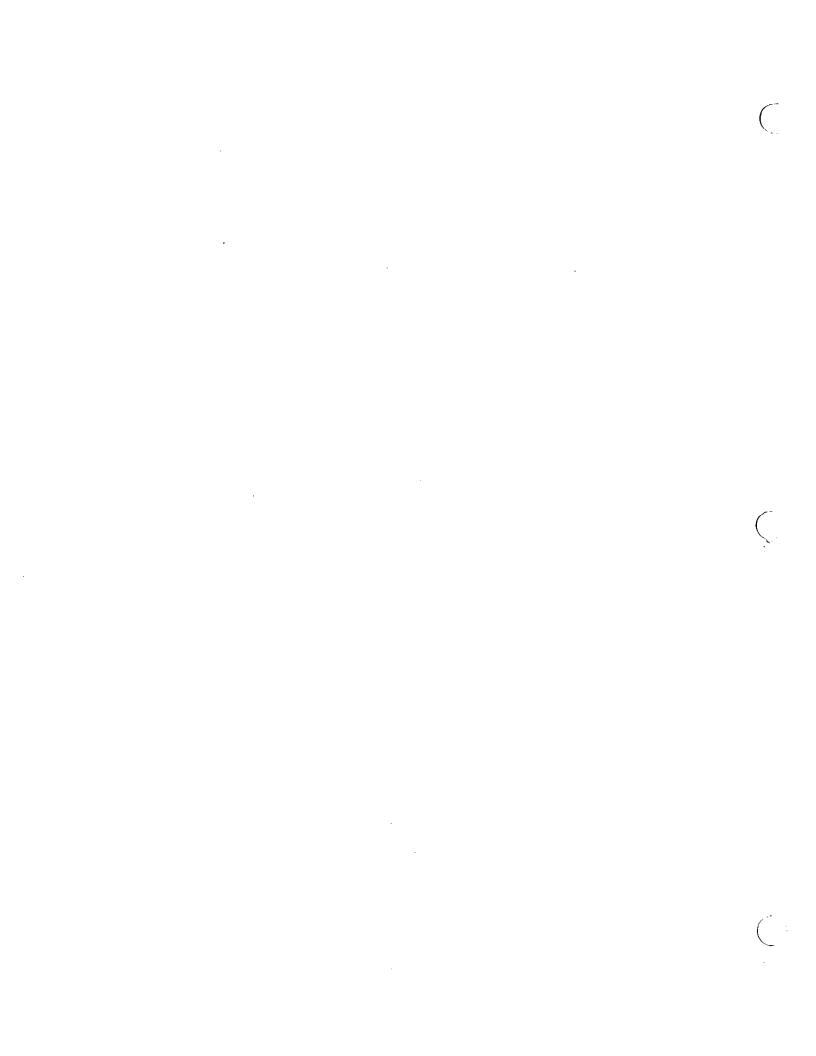
Issuing date : 08/06/2014

Version : 1.0

Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAVOGRAN
"SP-PF

Levision: 6/2/2015

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## 1. Product and Company Identification

Product Name : TSP-PF Product Code : 611N Recommended Use: Cleaner

Company Identification:

SAVOGRAN

259 LENOX STREET

PO BOX 130

NORWOOD, MA 02062-0130

Information Phone: 781-762-5400 Emergency Phone: 800-424-9300 Website Address: www.savogran.com

Synonyms: 10611,10612,10613,11615

### 2. Hazards Identification

assification:

wkin corrosion: Category 1B/Serious eye irritation: Category 2





Label Hazard Statement:

WARNING; Harmful if swallowed. Eye and skin irritant. May cause burns.

Potential Health Effects:

Eye:

Eye contact can cause severe irritation, redness, tearing, blurred vision and may cause transient injury to cornea.

Skin

Prolonged and/or repeated contact may cause irritation and/or dermatitis. Contact with skin causes irritation and positive burns, especially if the skin is wet or moist.

Ingestion:

May cause irritation, burns to mouth and esophagus, Aspiration of the swallowed or vomited product can cause severe pulmonary complications.

Inhalation:

Inhalation of dust can cause nasal and respiratory irritation. Chronic Overexposure Information:
NO DATA

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Teratology and Reproduction Information:

NO DATA

Aggravation of Pre-Existing Conditions:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

OSHA Hazard Communication Standard:

This product is defined as hazardous by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## 3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
SQUICARBONATE	533-96-0	90% ~ 95%
ETASILICATE  RE GUIDELINES NOT LISTED	6834-92-0	0% - 5%
TRASODIUM EXPOSURE GUIDELINES NOT LISTED	64-02-8	0% - 5%

### 4. First Aid Measures

Eyes:

Flood with plenty of water with eye lids held open for at least 15 minutes and get medical attention promptly.

Skin:

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion:

Do NOT induce vomiting. If conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention.

Note to Physicians:

Treat symptomatically. No specific antidote available.

### 5. Fire Fighting Measures

Flammable Properties: None

Hazardous Combustion Products:

May form carbon dioxide and carbon monoxide.

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Extinguishing Media:

Not combustible. Use extinguishing method suitable for surrounding fire.

Firefighting Procedures:

Solutions in water are moderately to strong alkaline. Wear full protective clothing.

### 6. Accidental Release Measures

Small Spill:

Wipe or scrape up any material. Wash area thoroughly with detergent and water; ventilate adequately with good fresh air movement at floor level.

Large Spill:

Wipe or scrape up any material. Wash area thoroughly with detergent and water; ventilate adequately with good fresh air movement at floor level.

Environmental Precautions:

Do not release into sewers or waterways.

wethods/Materials for Containment and Cleaning Up:

Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

### 7. Handling and Storage

Handling:

Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not ingest.

Storage:

Store in an area that is cool and dry. Moisture can cause caking.

### 8. Exposure Controls/Personal Protection

Airborne Exposure Limits: See Section 3

Engineering Controls:

When a potential for excessive exposure exits, use local ventilation at the point of generation.

Personal Protective Equipment:

Respiratory Protection:

Wear NIOSH/MSHA approved dust respirator, if dust is formed.

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Skin Protection:

Use dust proof gloves.

Eye Protection:

Use dust proof goggles if dust is irritating eyes.

## 9. Physical and Chemical Properties

Boiling Point: NA

Melting Point: NO DATA Freezing Point: NO DATA

Vapor Pressure: NA Vapor Density: NA

Solubility in Water: MODERATE

Evaporation Rate: NA

Flash Point: NA Method: NO DATA

Lower explosive limit: NO DATA Upper explosive limit: NO DATA Autoignition Temperature: NO DATA

Specific Gravity: 2.021 pH(1% in H20): 10-11

Odor: None

Appearance:: White crystalline solid

## 10. Stability and Reactivity

Chemical Stability (Conditions to Avoid):

Incompatibility:

Solutions in water are highly alkaline and may produce hydrogen gas when in contact with aluminum. Will react with acids to form carbon dioxide.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur.

## 11. Toxicological Information

Acute:

This product has not been tested as a whole.

Subchronic:

This product has not been tested as a whole.

Chronic/Carcinogenicity:

Not listed by ACGIH, IARC, NIOSH, NTP or OSHA

Routes of Exposure: Inhalation, Ingestion

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## 12. Ecological Information

Environmental Fate: This product has not been tested as a whole.

## 13. Disposal Considerations

Waste Disposal Method:

Small quantities may be deposited in general trash and residue flushed down drain with water. Large spills must be disposed of in accordance with local state and federal regulations.

## 14. Transport Information

Land Transport (DOT): Not Regulated

### 15. Regulatory Information

S. Federal Regulations:

TSCA: The intentional ingredients of this product are listed.

OSHA: The intentional regulated ingredients of this product are listed.

CERCLA: SARA Hazard Category: None

Section 313: Not Listed

Reportable Quantity: None of the chemicals in this material have an RQ

State Regulations:

NO DATA

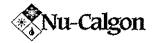
Volatile Organic Compounds: None

#### 16. Other Information:

NFPA Ratings: 2,0,0

Manufacturer Disclaimer:

Judgement of potential hazards of this product is based on information available about individual components listed under section 3 - Ingredients. Direct testing of mixture has not been done. Information given herein is believed to be accurate and is given in good faith. However, no warranty either expressed or implied is made. It is strongly suggested that users confirm in advance of need that the information is current and applicable to their situations.



## 1. Product and Company Identification

Product name

NU-BRITE (4291-01, 4291-05, 4291-08, 4891-08)

CAS#

Mixture

Product Use

Coil Cleaner / Degreaser

Manufacturer

Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

## 2. Hazards Identification

**Emergency overview** 

DANGER

CAUSES EYE BURNS, CAUSES SKIN BURNS.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

Causes chemical burns. May cause blindness.

Skin

Causes chemical burns. Harmful contact may not cause immediate pain.

Inhalation

May cause respiratory tract irritation or chemical burns.

Ingestion

Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

Target organs

Eyes. Respiratory system. Skin.

Chronic effects

Components
Sodium hydroxide
Alkyl polyglycoside

Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms

The product causes burns of eyes, skin and mucous membranes.

Potential environmental effects

Components of this product have been identified as having potential environmental concerns.

3. Composition/Information on Ingredients		
	CAS#	Percent
	1310-73-2	15 - 40
3	110615-47-9	1-5

#### 4. First Aid Measures

First aid procedures

Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for

15 minutes. Obtain medical attention immediately.

Skin contact

Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes.

Discard or wash well before reuse. Obtain medical advice immediately.

Inhalation

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical

attention.

Notes to physician

Treat patient symptomatically.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Use of an internal inte

impervious apron is recommended. Keep out of reach of children.

### 5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing

media

Dry chemical. Water spray. Carbon dioxide. Foam.

Unsuitable extinguishing Not available media Protection of firefighters Specific hazards arising Not available from the chemical Protective equipment for Firefighters should wear full protective clothing including self contained breathing apparatus. firefighters Hazardous combustion May include and are not limited to: Oxides of carbon. products **Explosion data** Sensitivity to mechanical No. impact Sensitivity to static No. discharge 6. Accidental Release Measures Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. **Environmental precautions** Do not discharge into lakes, streams, ponds or public waters. Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Methods for cleaning up Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use. 7. Handling and Storage idling Ensure adequate ventilation. Do not get in eyes, on skin or on clothing. Use good industrial hygiene practices in handling this material. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid breathing vapours or mists of this product. Keep out of the reach of children. Store in a closed container away from incompatible materials. rage 8. Exposure Controls/Personal Protection Occupational exposure limits US. ACGIH Threshold Limit Values Components Value Туре Sodium hydroxide (CAS Ceiling 2 mg/m3 1310-73-2) **Exposure limits** Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH. **Engineering controls** General ventilation normally adequate. Personal protective equipment Eye/Face protection Wear chemical goggles. Hand protection Rubber gloves. Confirm with a reputable supplier first. As required by employer code. Rubber apron recommended. Skin and body protection Respiratory protection Avoid breathing mists or vapours. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. General hygiene Use good industrial hygiene practices in handling this material. When using do not eat or drink.

9. Physical and Chemical Properties

Wash hands before breaks and immediately after handling the product.

AppearanceLiquidColourBlueFormLiquid

considerations

Odour Characteristic, Mild

Odour threshold

Not available.

Physical state

Liquid.

pΗ

14 (Concentrate)

Freezing point

0 °C (32 °F)

**Boiling point** 

100 °C (212 °F)

Pour point

Not available.

**Evaporation rate** 

Flash point

Not available

Auto-ignition temperature

None to boiling

Not available

Flammability Limits in Air,

Upper, % by Volume

Not available

Flammability Limits in Air,

Lower, % by Volume

Not available

Heat of combustion

Not available.

Vapour pressure Vapour density

Not available Not available

Specific gravity

 $1.242 \pm 0.005$ 

Partition coefficient (n-octanol/water)

Not available

Solubility (Water)

Complete

Relative density Viscosity

Not available. Not available.

VOC

Not available

Percent volatile

Not available

## 10. Stability and Reactivity

Reactivity

Reacts violently with acids.

This product may react with oxidizing agents.

Stable under recommended storage conditions.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Chemical stability Conditions to avoid

Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers.

Do not mix with other chemicals.

Incompatible materials

Acids. Oxidizing agents.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon.

## 11. Toxicological Information

Toxicological data Components

**Species** 

**Test results** 

Alkyl polyglycoside (CAS 110615-47-9)

Acute

Dermal

LD50

Rabbit

> 2000 mg/kg

Inhalation LC50

Not available

Oral

LD50

Rat

> 5000 mg/kg

Sodium hydroxide (CAS 1310-73-2)

Acute

Dermal

LD50

Rabbit

1350 mg/kg

Inh-l-ti	Species		Test results	
Inhalation LC50	Not available	e		(
<i>Oral</i> LD50	Not available	9		
Effects of acute exposure				
Eye contact	Causes chemi	cal burns. May cause blindness.		
Skin contact	Causes chemi	cal burns. Harmful contact may not cau	se immediate pain.	
Inhalation	May cause res	piratory tract irritation or chemical burns	s.	
Ingestion	Harmful if swa	llowed. Causes chemical burns to mout	th, throat and stomach.	
Sensitisation	Non-hazardous	s by WHMIS criteria.		
Chronic effects	Non-hazardou	s by WHMIS criteria.		
Carcinogenicity	Non-hazardou	s by WHMIS criteria.		
Mutagenicity	Non-hazardous	by WHMIS criteria.		
Reproductive effects	Non-hazardous	by WHMIS criteria.		
Teratogenicity		s by WHMIS criteria.		
Name of Toxicologically Synergistic Products	Not available.			
		12. Ecological Information		
Ecotoxicity	Components of	of this product have been identified as ha	aving potential environmental concern	S.
Ecotoxicological data Components		Species	Test results	
Sodium hydroxide (CAS 1310-73-	-2)			
Aquatic				
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours	
Fish	LC50	Western mosquitofish (Gambusia affin	is) 125 mg/l, 96 hours	
Persistence and degradability	Not available.			
Bioaccumulation/accumulation				
Mobility in environmental media	Not available.			
Environmental effects	Not available.			
Aquatic toxicity	Not available.			
Partition coefficient	Not available.			
Chemical fate information	Not available.			
		13. Disposa	Considerations	
Disposal instructions	Dispose in acc	cordance with all applicable regulations.		
Waste from residues / unused products	Not available			
Contaminated packaging	Not available	· .		
		14. Transport Information		<u> </u>
Transportation of Dangerous G	oods (TDG - Car	nada)		
Basic shipping requiremen	oods (TDG - Car ts:	nada)		
Basic shipping requirement UN number	oods (TDG - Car ts: UN3266		Codium hydrovida)	
Basic shipping requiremen	oods (TDG - Car ts: UN3266	nada) LIQUID, BASIC, INORGANIC, N.O.S. (S	Godium hydroxide)	a.
Basic shipping requiremen UN number Proper shipping name	oods (TDG - Car ts: UN3266 CORROSIVE		Sodium hydroxide)	(



## 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## Canada WHMIS Ingredient Disclosure: Threshold limits

Sodium hydroxide (CAS 1310-73-2)

1 %

WHMIS status

Controlled

WHMIS Classification

Class E - Corrosive Material

WHMIS labeling



### Inventory status

Country(s) or region

**Inventory Name** 

On Inventory (Yes/No)\*

Canada

Domestic Substances List (DSL)

Yes No

Canada

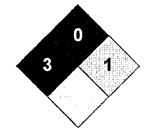
Non-Domestic Substances List (NDSL)

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

18-August-2014

Effective date

15-August-2014

Expiry Date

15-August-2017

Prepared by

Nu-Calgon Technical Service Phone: (314) 469-7000

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the

document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.



REVISION DATE: 08-28-2013

SUPERSEDES:

None

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION

H.B. Fuller Construction Products Inc.

1105 S. Frontenac Street

Aurora, IL 60504

Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT INFORMATION

PRODUCT NUMBER:

FLORCRAFT WALL-BASE ADHESIVE

PRODUCT DESCRIPTION:

Mastic

PRODUCT IDENTIFIER:

836870PM

### **SECTION 2: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW** 

PHYSICAL STATE:

Semi-solid

COLOR:

Tan

ODOR:

Odorless

#### POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: No irritation hazard in normal industrial use.

SKIN: Can cause minor skin irritation, defatting, and dermatitis.

INHALATION: Can cause minor respiratory irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

INGESTION: Ingestion is not an anticipated route of exposure. No hazard in normal industrial use,

LONG-TERM (CHRONIC) HEALTH EFFECTS

TARGET ORGAN(S):

Lungs

#### **REGULATED CARCINOGEN STATUS:**

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Lung disease

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	PERCENT
Kaolin clay	1332-58-7	30 - 50

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

### **SECTION 4: FIRST AID MEASURES**

IF IN EYES: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.



IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

#### **SECTION 5: FIRE FIGHTING MEASURES**

FLASH POINT:

AUTOIGNITION TEMPERATURE:

LOWER EXPLOSIVE LIMIT (% in air):

Not established

UPPER EXPLOSIVE LIMIT (% in air):

Not established

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: There is a possibility of pressure buildup in closed containers

when heated. Water spray may be used to cool the containers. SPECIAL FIRE FIGHTING INSTRUCTIONS:

Persons exposed to products of combustion should wear self-

HAZARDOUS COMBUSTION PRODUCTS: contained breathing apparatus and full protective equipment. Carbon dioxide, Carbon monoxide Nitrogen containing gases

SPECIAL PROTECTION: No adverse health effects expected from the clean-up of spilled material.

Follow personal protective equipment recommendations found in Section 8

of this MSDS.

CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to containers

for disposal. Keep spilled product out of sewers, watersheds, or water

systems.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

### **SECTION 7: HANDLING AND STORAGE**

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Wear safety glasses when handling this product.

SKIN PROTECTION: Avoid skin contact by wearing chemically resistant gloves.

GLOVES: Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: Respiratory protection may be required to avoid overexposure when

handling this product. Use a respirator if general room ventilation is

not available or sufficient to eliminate symptoms.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).

VENTILATION: Use local exhaust ventilation or other engineering controls to

minimize exposures.

### **EXPOSURE LIMITS:**

Chemical Name	ACGIH EXPOSURE LIMITS	OSHA PEL
Kaolin clay	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Semi-solid COLOR: Tan ODOR:

Odorless ODOR THRESHOLD: Not established

WEIGHT PER GALLON (lbs.): 10.90 SPECIFIC GRAVITY: 1.300 9.0

FLASH POINT: Non flammable BOILING POINT (deg. C): Not established FREEZING/MELTING POINT (deg. C): Not established VAPOR PRESSURE (mm Hg): Not established VAPOR DENSITY: Not established **EVAPORATION RATE:** Not established OCTANOL/WATER COEFFICIENT: Not established

VOC, weight percent 0.37

VOC, EPA Method 24, less water and exempt solvents 10g/liter of material

(theoretically determined)

### SECTION 10: STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

CHEMICAL INCOMPATIBILITY:

Not established Will not occur.

HAZARDOUS POLYMERIZATION:

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Nitrogen

containing gases

## **SECTION 11: TOXICOLOGICAL INFORMATION**

COMPONENT	LD50 ORAL	LC50 INHALATION	LD50 DERMAL
Kaolin clay	Not established		

TOXICOLOGY SUMMARY:

No additional health information available.

### **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

### **SECTION 14: TRANSPORTATION INFORMATION**

Consult Bill of Lading for transportation information.

DOT: NOT REGULATED IATA: NOT REGULATED

### **SECTION 15: REGULATORY INFORMATION**

**INVENTORY STATUS** 

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from



DSL requirements.

EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be

imported into Europe unless the REACH requirements are met.

AUSTRALIA AICS: This product is in compliance with the Australian Inventory of Chemical

Substances requirements.

KOREAN TCCL: This product is in compliance with the Korean Existing Chemicals List

requirements.

PHILIPPINES: This product is in compliance with the Philippine Inventory of Chemicals and

Chemical Substances requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at 651-236-5858 (USA) or 450-655-1306 x227 (Canada) to request an export review.

#### FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name CAS# %

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	0.01 - 0.1
Ethyl acrylate	(Carcinogen)	140-88-5	0.001 - 0.01
Dibromoacetonitrile	(Carcinogen)	3252-43-5	0.001 - 0.01
Acrylamide	(Carcinogen)	79-06-1	< 10 ppm
1,4-Dioxane	(Carcinogen)	123-91-1	< 10 ppm
C.I. Direct blue 15	(Carcinogen)	2429-74-5	< 10 ppm
Acrylonitrile	(Carcinogen)	107-13-1	< 10 ppm
Acrylamide	(Developmental toxin)	79-06-1	< 10 ppm
Acrylamide	(Male reproductive toxin)	79-06-1	< 10 ppm

### **SECTION 16: ADDITIONAL INFORMATION**

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment

recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842



The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

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Print Date: 03-12-2015

## TEC SS WALL BASE ADHESIVE 835083PM

## SAFETY DATA SHEET

REVISION DATE: 02-13-2015

SUPERSEDES:

02-10-2015

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### PRODUCT INFORMATION

PRODUCT:

TEC SS WALL BASE ADHESIVE

PRODUCT DESCRIPTION:

Mastic

INTENDED USE:

Adhesive

PRODUCT IDENTIFIER:

835083PM

#### COMPANY INFORMATION

H.B. Fuller Construction Products Inc.

1105 S. Frontenac Street

Aurora, IL 60504

Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

### **SECTION 2: HAZARDS IDENTIFICATION**

### **GHS Hazard Symbols:**



GHS Signal Word:

Warning

**GHS Classification:** 

Serious Eye Damage/Eye Irritation Category 2

GHS Hazard Phrases:

**GHS Precautions:** Safety Precautions:

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection.

Causes serious eye irritation.

First Aid Measures:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	PERCENT	Classification	Note
Butyl acrylate/vinyl benzene polymer	25767-47-9	10 - 30	Eye Irrit. 2; H319	-

<sup>\*</sup>This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

### **SECTION 4: FIRST AID MEASURES**



# TEC SS WALL BASE ADHESIVE 835083PM

### SAFETY DATA SHEET

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

# **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SPECIAL FIRE FIGHTING INSTRUCTIONS:

....

HAZARDOUS COMBUSTION PRODUCTS:

Use water spray, foam, dry chemical or carbon dioxide.

There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

Persons exposed to products of combustion should wear selfcontained breathing apparatus and full protective equipment.

Carbon dioxide, Carbon monoxide Nitrogen containing gases

# SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:

No adverse health effects expected from the clean-up of spilled material.

Follow personal protective equipment recommendations found in

Section 8 of this MSDS.

METHODS FOR CLEAN-UP:

Dike if necessary, contain spill with inert absorbent and transfer to

containers for disposal. Keep spilled product out of sewers, watersheds,

or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# **SECTION 7: HANDLING AND STORAGE**

Handling:

No special handling instructions due to toxicity.

Storage:

Store in a cool, dry place. Protect from freezing

Consult the Technical Data Sheet for specific storage instructions.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Kaolin clay	* (see below)	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

<sup>\*</sup>This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

#### **ENGINEERING CONTROL METHODS:**

VENTILATION:

Use local exhaust ventilation or other engineering controls to

minimize exposures.

EYE PROTECTION:

Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles

and/or face shield when the possibility exists for eye contact with



# TEC SS WALL BASE ADHESIVE

835083PM

### SAFETY DATA SHEET

splashing or spraying liquid, or airborne material. Have an eye wash

station available.

SKIN PROTECTION:

Not normally required. Wear chemically resistant gloves to prevent

prolonged or repeated contact.

GLOVES:

Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION:

Respiratory protection may be required to avoid overexposure when

handling this product. Use a respirator if general room ventilation is

not available or sufficient to eliminate symptoms.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:

COLOR:

ODOR:

ODOR THRESHOLD:

FREEZING/MELTING POINT (deg. C):

BOILING POINT (deg. C):

FLASH POINT:

**EVAPORATION RATE:** 

FLAMMABILITY:

UPPER EXPLOSIVE LIMIT (% in air):

LOWER EXPLOSIVE LIMIT (% in air): VAPOR PRESSURE (mm Hg):

VAPOR DENSITY: WEIGHT PER GALLON (lbs.):

SPECIFIC GRAVITY:

SOLUBILITY: OCTANOL/WATER COEFFICIENT: **AUTOIGNITION TEMPERATURE: DECOMPOSITION TEMPERATURE:** 

VISCOSITY:

VOC, weight percent

VOC, U.S. EPA Method 24, less water and exempt

solvents (theoretically determined)

Semi-solid

Tan

Odorless

Not established

9.0

Not established

Not established

Non flammable

Not established

Not a flammable solid or gas

Not established Not established

Not established

Not established 10.90

1.300

Not established

Not established Not established

Not established

No data available.

0.37

10g/liter of material

# **SECTION 10: STABILITY AND REACTIVITY**

STABILITY:

Stable under normal conditions.

CHEMICAL INCOMPATIBILITY:

Not established

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Nitrogen

containing gases

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Component Toxicity / Toxicology Data:

COMPONENT NAME	LD50/LC50
Diethyleneglycol dibenzoate	ORAL LD50 RAT 2,830 MG/KG

This product is a mixture. Unless noted, the information below is based on components.



# TEC SS WALL BASE ADHESIVE

835083PM

### SAFETY DATA SHEET

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis. Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening.

Respiratory / skin sensitization: No data available. .

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available. Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

### **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW:

No ecological information available for this product.

MOBILITY:

No data available.

PERSISTENCE:

No data available.

BIOACCUMULATION:

No data available.

# This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
Urea	Acute Toxicity (Fish): 96 Hr LC50 Poecilia reticulata: 16200 - 18300 mg/L
	Acute Toxicity (Daphnia): 24 Hr EC50 Daphnia magna Straus: >10000 mg/L; 48 Hr
	EC50 Daphnia magna: 3910 mg/L [Static]
	Acute Toxicity (Algae): Not established

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

# **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT:

NOT REGULATED

IATA:

NOT REGULATED

# **SECTION 15: REGULATORY INFORMATION**

#### INVENTORY STATUS

U.S. EPA TSCA:

This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL:

The components of this product are included on the DSL or are exempt

from DSL requirements.

EUROPEAN REACH:

As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are

met.



# TEC SS WALL BASE ADHESIVE 835083PM

# SAFETY DATA SHEET

**AUSTRALIA AICS:** 

This product is in compliance with the Australian Inventory of

Chemical Substances requirements.

KOREAN TCCL:

This product is in compliance with the Korean Existing Chemicals List

requirements.

PHILIPPINES:

This product is in compliance with the Philippine Inventory of

Chemicals and Chemical Substances requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

### FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name CAS# %

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

D2B

#### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	0.01 - 0.1
Ethyl acrylate	(Carcinogen)	140-88-5	0.001 - 0.01
Dibromoacetonitrile	(Carcinogen)	3252-43-5	0.001 - 0.01
Acrylamide	(Carcinogen)	79-06-1	< 10 ppm
1,4-Dioxane	(Carcinogen)	123-91-1	< 10 ppm
C.I. Direct blue 15	(Carcinogen)	2429-74-5	< 10 ppm
Acrylonitrile	(Carcinogen)	107-13-1	< 10 ppm
Acrylamide	(Developmental toxin)	79-06-1	< 10 ppm
Acrylamide	(Male reproductive toxin)	79-06-1	< 10 ppm

#### Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's.

4-Nonylphenol, ethoxylated

# **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE:

02-13-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.



# TEC SS WALL BASE ADHESIVE 835083PM

# SAFETY DATA SHEET

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.



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# SAFETY DATA SHEET

# 1. Identification

Material name: DYMONIC WHITE

Material: 955806 323

Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants 3735 Green Road Cleveland OH 44122 US

Contact person:

Telephone:

Emergency telephone number:

EH&S Department 216-292-5000

1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

### **Hazard Classification**

#### Health Hazards

Carcinogenicity Category 1A
Toxic to reproduction Category 2

# Unknown toxicity - Health

Acute toxicity, oral 14.47 %
Acute toxicity, dermal 30.9 %
Acute toxicity, inhalation, vapor 98.27 %
Acute toxicity, inhalation, dust or mist 86.33 %

#### **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment

# **Unknown toxicity - Environment**

Acute hazards to the aquatic 80.64 % environment Chronic hazards to the aquatic environment 100 %

# **Label Elements**

# Hazard Symbol:



Signal Word:

Danger



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**Hazard Statement:** 

May cause cancer.

Suspected of damaging fertility or the unborn child.

Harmful to aquatic life.

Precautionary Statement: Prevention:

Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective

equipment as required.

Response:

If exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Calcium Carbonate (Limestone)	1317-65-3	10 - 30%
Calcium salt	7778-18-9	10 - 30%
Titanium dioxide	13463-67-7	3 - 7%
White mineral oil	8042-47-5	1 - 5%
Petroleum distillates	64742-47-8	1 - 5%
Toluene	108-88-3	1 - 5%
Paraffin	8002-74-2	0.5 - 1.5%
Methyl isobutyl ketone	108-10-1	0.1 - 1%
Aluminum oxide	1344-28-1	0.1 - 1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:

Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

Inhalation:

Move to fresh air.

Skin Contact:

Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

Eye contact:

Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.



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Most important symptoms/effects, acute and delayed

Symptoms:

May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment:

Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards:

No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No data available.

Methods and material for containment and cleaning

up:

Collect spillage in containers, seal securely and deliver for disposal

according to local regulations.

Notification Procedures: In

In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

**Environmental Precautions:** 

Avoid release to the environment. Prevent further leakage or spillage if safe

to do so.



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# 7. Handling and storage

Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Conditions for safe storage, including any incompatibilities:

Store locked up.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	type	Exposure Lim	it Values	Source
Calcium Carbonate (Limestone) - Total dust.	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium salt - Inhalable fraction.	TWA		10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Calcium salt - Total dust.	PEL .		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium salt - Respirable fraction.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Titanium dioxide	TWA		10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
White mineral oil - Inhalable fraction.	TWA		5 mg/m3	US. ACGIH Threshold Limit Values (2011)
White mineral oil - Mist.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Petroleum distillates - Non-aerosol as total hydrocarbon vapor	TWA		200 mg/m3	US. ACGIH Threshold Limit Values (2011)
	TWA		200 mg/m3	US. ACGIH Threshold Limit Values (2011)
Toluene	TWA	20 ppm	-	US. ACGIH Threshold Limit Values (2011)
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)



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Paraffin - Fume.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values (2011)
Methyl isobutyl ketone	TWA	20 ppm		US. ACGIH Threshold Limit Values (2011)
	STEL	75 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	100 ppm	410 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - Respirable fraction.	TWA		1 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Aluminum oxide - Total dust.	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA		0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA		2,4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA		0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ Silica Sand - Total dust.	TWA		0.3 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

Chemical name	type	Exposure Limit Values	Source
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



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Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium salt - Inhalable	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium salt - Inhalable fraction.	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Calcium salt - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium salt - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
White mineral oil - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
White mineral oil - Mist.	TWAEV	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)



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White mineral oil - Mist.	TWA	ę	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	10	0 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Petroleum distillates - Non-aerosol as total hydrocarbon vapor	TWA		200 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Petroleum distillates	TWAEV		525 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Petroleum distillates - Non-aerosol as total hydrocarbon vapor	TWAEV		200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	TWAEV		200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Toluene	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Toluene	TWAEV	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Toluene	TWA	50 ppm	188 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Methyl isobutyl ketone	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
	STEL	75 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl isobutyl ketone	TWAEV	50 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	75 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Methyl isobutyl ketone	STEL	75 ppm	307 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	TWA	50 ppm 🔧	205 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the



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			Quality of the Work Environment) (12 2008)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	. 0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

**Biological Limit Values** 

Chemical Identity	Exposure Limit Values	Source
Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03 2013)
Methyl isobutyl ketone (methyl isobutyl ketone: Sampling time: End of shift.)	1 mg/l (Urine)	ACGIH BEL (03 2013)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information:

Use personal protective equipment as required.

Eye/face protection:

Wear goggles/face shield.

Skin Protection

Hand Protection:

Use suitable protective gloves if risk of skin contact.

Other:

No data available.

Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions

before use.



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# 9. Physical and chemical properties

**Appearance** 

Physical state: solid Form: Paste Color: White

Odor: Mild

Odor threshold: No data available. :Ha No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: No data available.

Flash Point: No data available.

**Evaporation rate:** Slower than n-Butyl Acetate

Flammability (solid, gas): Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. Vapor pressure:

Vapor density: Vapors are heavier than air and may travel along the floor and

No data available.

in the bottom of containers.

Relative density: 1.286

Solubility(ies)

Solubility in water: Insoluble in water Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available. Auto-ignition temperature: No data available. Decomposition temperature: No data available. Viscosity: No data available.

### 10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

No data available.

Conditions to Avoid: Avoid heat or contamination.

Incompatible Materials: Alcohols. Amines. Strong acids. Strong bases. Water, moisture.

**Hazardous Decomposition** 

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

### 11. Toxicological information



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Information on likely routes of exposure

Ingestion:

May be ingested by accident. Ingestion may cause irritation and malaise.

Inhalation:

In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** 

Causes mild skin irritation.

Eye contact:

Eye contact is possible and should be avoided.

# Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:

ATEmix: 40,135.46 mg/kg

Dermal

Product:

ATEmix: 7,910.98 mg/kg

Inhalation

Product:

No data available.

Repeated dose toxicity

Product:

No data available.

Skin Corrosion/Irritation

Product:

No data available.

Serious Eye Damage/Eye Irritation

Product:

No data available.

Specified substance(s):

Calcium salt

in vivo (Rabbit, 72 hrs): Not irritating

Titanium dioxide

in vivo (Rabbit, 24 - 72 hrs): Not irritating

White mineral oil

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Petroleum distillates

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Toluene

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Paraffin

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Methyl isobutyl ketone

in vivo (Rabbit, 24 - 72 hrs): Slightly irritating (Not Classified)

Aluminum oxide

in vivo (Rabbit, 24 hrs): Not irritating

Respiratory or Skin Sensitization

Product:

No data available.



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Carcinogenicity

Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide

Overall evaluation: Possibly carcinogenic to humans.

Methyl isobutyl

ketone

Overall evaluation: Possibly carcinogenic to humans.

Crystalline Silica

(Quartz)/ Silica Sand Overall evaluation: Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Crystalline

Silica Known To Be Human Carcinogen.

(Quartz)/

Sand

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Silica

Germ Cell Mutagenicity

In vitro

Product:

No data available.

In vivo

Product:

No data available.

Reproductive toxicity

Product:

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

Aspiration Hazard

Product:

No data available.

Other effects:

No data available.

### 12. Ecological information

#### **Ecotoxicity:**

Acute hazards to the aquatic environment:



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Fish

Product:

No data available.

Specified substance(s):

Calcium salt

LC 50 (Fathead minnow (Pimephales promelas), 96 h): > 1,970 mg/l

Mortality

Titanium dioxide

LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality

Petroleum distillates

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 2.9

mg/I Mortality

Toluene

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 71.7 - 82.8 mg/l

Mortality

Methyl isobutyl ketone

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 496 - 514 mg/l

Mortality

Aquatic Invertebrates

Product:

No data available.

Specified substance(s):

Calcium salt

LC 50 (Water flea (Daphnia magna), 24 h): > 1,970 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 24 h): > 1,940 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): > 1,970 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): > 1,910 mg/l Mortality

Titanium dioxide

EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

Toluene

LC 50 (Water flea (Daphnia magna), 24 h): 240 - 420 mg/l Mortality EC 50 (Water flea (Daphnia magna), 48 h): < 9.83 mg/l Intoxication

Methyl isobutyl ketone

LC 50 (Water flea (Daphnia magna), 24 h): 4,280 mg/l Mortality

# Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Specified substance(s):

Titanium dioxide

LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental

result

White mineral oil

NOAEL (Oncorhynchus mykiss, 28 d): >= 1,000 mg/l QSAR

Petroleum distillates

NOAEL (Oncorhynchus mykiss, 28 d): 0.098 mg/l QSAR

Toluene

NOAEL (Pimephales promelas, 32 d): 4 mg/l experimental result

Paraffin

NOAEL (Oncorhynchus mykiss, 28 d): >= 1,000 mg/l QSAR

Aluminum oxide

NOAEL (Pimephales promelas, 28 d): 4.7 mg/l experimental result

Aquatic Invertebrates

. Product: No data available.

**Toxicity to Aquatic Plants** 

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Product:

No data available.

# Persistence and Degradability

Biodegradation

Product:

No data available,

**BOD/COD Ratio** 

Product:

No data available.

### **Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** 

Product:

No data available.

Specified substance(s):

Toluene

Green algae (Selenastrum capricornutum), Bioconcentration Factor (BCF):

3,016 (Static)

# Partition Coefficient n-octanol / water (log Kow)

Product:

No data available.

Specified substance(s):

Toluene

Log Kow: 2.73

Methyl isobutyl ketone

Log Kow: 1.31

Mobility in Soil:

No data available.

Other Adverse Effects:

Harmful to aquatic organisms.

# 13. Disposal considerations

Disposal instructions:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging:

No data available.

# 14. Transport information

### TDG:

Not Regulated

### CFR / DOT:

Not Regulated

# IMDG:

Not Regulated

000000001266

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# 15. Regulatory information

# **US Federal Regulations**

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Blood

**Chemical Identity** 

OSHA hazard(s)

Benzene

respiratory tract irritation Central nervous system

Flammability Cancer Skin Aspiration Eye

# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical IdentityReportable quantityToluene1000 lbs.Methyl isobutyl ketone5000 lbs.Benzene10 lbs.Methanol5000 lbs.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

### SARA 304 Emergency Release Notification

Chemical IdentityReportable quantityToluene1000 lbs.Methyl isobutyl ketone5000 lbs.Benzene10 lbs.Methanol5000 lbs.



Revision Date: 07/28/2015

# SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Calcium Carbonate	500 lbs
(Limestone)	
Calcium salt	500 lbs
Titanium dioxide	500 lbs
White mineral oil	500 lbs
Petroleum distillates	500 lbs
Toluene	500 lbs
Paraffin	500 lbs
Methyl isobutyl ketone	500 lbs
Aluminum oxide	500 lbs
Crystalline Silica (Quartz)/	500 lbs
Silica Sand	

# SARA 313 (TRI Reporting)

# **Chemical Identity**

Toluene

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

### **US State Regulations**

# **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

# US. New Jersey Worker and Community Right-to-Know Act

# **Chemical Identity**

Calcium Carbonate (Limestone)

Calcium salt

Titanium dioxide

White mineral oil

Petroleum distillates

Toluene

# US. Massachusetts RTK - Substance List

# **Chemical Identity**

Calcium Carbonate (Limestone)

Calcium salt

Titanium dioxide

White mineral oil

Petroleum distillates

Toluene

Crystalline Silica (Quartz)/ Silica Sand

Benzene



Revision Date: 07/28/2015

### US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Calcium Carbonate (Limestone)
Calcium salt
Titanium dioxide
White mineral oil
Petroleum distillates
Toluene

US. Rhode Island RTK
Chemical Identity
Toluene

Other Regulations:

Regulatory VOC (less water

57 g/l

and exempt solvent): VOC Method 310:

2.61 %

**Inventory Status:** 

Australia AICS:

One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List:

One or more components in this product are not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP:

One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI):

One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS:

One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are not listed on or exempt from the Inventory.

Japan ISHL Listing:

One or more components in this product are



Revision Date: 07/28/2015

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:

07/28/2015

Version #:

1.0

Further Information:

No data available.

Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject

to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.

# SAFETY DATA SHEET

Date Issued: 2/6/15

Page 1 of 5

# **SECTION 1 - COMPANY and PRODUCT IDENTIFICATION**

MANUFACTURER

GARDNER-GIBSON CORPORATION 4161 East 7<sup>th</sup> Avenue Tampa, FL 33605

EMERGENCY TELEPHONE NUMBER 1-800-424-9300 CHEMTREC

Product Class

Acrylic latex sealant used in building construction.

813-248-2101 gardner-gibson.com

Product Code Number 0338-GA (1 quart)

Product Information

<u>Trade Name</u>

Leak Stopper Clear Patch

# **SECTION 2 – HAZARDS IDENTIFICATION**

Product Classification: No need for classification according to GHS criteria.

Effects of acute toxicity:

EYES: Direct contact may cause irritation.

SKIN: May cause irritation to sensitive skin or open wounds. INHALATION: May cause irritation to respiratory passages.

INGESTION: May cause nausea.

**Precautions:** 

Wear suitable protective clothing, gloves and eye protection.

If the product adheres to exposed skin, irritation may occur when the product dries.

Use with local exhaust ventilation.

Do not take internally. Wash hands before eating or drinking.

# SECTION 3 - COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	Content (By Weight)	TLV PPM	PEL - TWA PPM
2,2,4-Trimethyl-1,3-pentanediol Monoisobutyrate CAS # 25265-77-4	1.0 - 2.0%	N.E.	N.E.
2-Amino-2-methyl-1-propanol CAS # 124-68-5	1.0 - 2.0%	N.E.	N.E.
All nonhazardous ingredients in this waterborne product are trade secret.	96.0 - 98.0%	N.A.	N.A.

There are no ingredients in this product of unknown acute toxicity.

N.E. = Not Established

N.A. = Not Applicable

# SAFETY DATA SHEET

Leak Stopper Clear Patch

Page 2 of 5

# SECTION 4 - FIRST-AID MEASURES

**Inhalation:** If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms of difficulty in breathing continue, get immediate medical attention.

**Skin:** Rinse skin immediately with plenty of clean water for 5 to 10 minutes. Remove contaminated clothing. If skin irritation occurs get medical advice/attention.

**Eye(s):** Rinse cautiously with water for several minutes. Remove contact lenses if present and if it is easy to do so. Continue rinsing. If eye irritation persists get medical advice/attention.

**Ingestion:** If swallowed, do not induce vomiting. If conscious, give 2 to 3 glasses of water and seek medical advice/attention immediately.

# **SECTION 5 – FIRE-FIGHTING MEASURES**

Extinguishing Media: Carbon dioxide, dry chemical, foam, or water spray

Unusual Fire and Explosion Hazards: None known

**Special Fire Fighting Procedures:** Water can be used to cool fire-exposed containers. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Observe all personal protective equipment recommendations described in Section 8. Wipe up or scrape up spilled material and contain for disposal. Final cleaning may require use of hot water and/or detergents. Dispose of saturated absorbent or cleaning materials appropriately.

# **SECTION 7 – HANDLING and STORAGE**

**Precautions for safe handling:** Keep away from extreme heat. Do not get in eyes, on skin, on clothing. Do not swallow product. Wash thoroughly after handling. Use with adequate ventilation.

Conditions for safe storage: Store in a cool, dry place in the original container. Keep container closed when not in use. Store the product away from strong oxidizing chemicals. Avoid extreme heat. Store above 7 °C (45 °F). Product will freeze below 0 °C (32 °F).

### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Use with adequate ventilation.

Skin Protection: Chemical resistant gloves are recommended for prolonged exposure.

**Eye Protection:** Wear safety glasses with side shields. OTHER PROTECTIVE EQUIPMENT: None required.

# **SECTION 9 – PHYSICAL and CHEMICAL PROPERTIES**

Appearance (Physical state, color): Thick fluid paste, milky-white when wet, dries clear

Odor: Mild, acrylic-like

Odor Threshold: No information is available.

pH: 7.5 - 8.5

Melting point: No data is available.

Initial Boiling Point & Boiling Range: 100 °C to 244 °C (212 °F to 471 °F)

Flash Point: >94 °C (>201 °F)
Evaporation Rate: Slower than Ether
Flammability: Nonflammable

Upper/Lower Flammability Limits: No data is available.

Vapor Pressure: 17.5 mm Hg @ 20 °C (68 °F)

Vapor Density: Heavier than air

Density: 1.06 g/cm<sup>3</sup> (8.8 Lbs/gal) 21 °C (70 °F)

Solubility (in water): Dispersible in water
Partition coefficient (n-octanol/water): No data is available.

Auto-ignition temperature: No data is available.

Auto-ignition temperature: No data is available.

Decomposition temperature: >250 °C (482 °F)

Viscosity (Brookfield RV, 5 rpm): 300,000 cP ±60,000 @ 21 °C (70 °F)

# SECTION 10 - STABILITY and REACTIVITY

**Reactivity:** No hazardous reactions if stored and handled as prescribed.

Chemical Stability: The product is stable if stored and handled as prescribed.

Hazardous decomposition products: Carbon dioxide, carbon monoxide, and hydrocarbons.

Hazardous polymerization: Will not occur. The product is chemically stable.

# **SECTION 11 – TOXICOLOGICAL INFORMATION**

**Primary routes of exposure:** Routes of entry for the product into the human body are accidental ingestion, accidental eye contact, and prolonged skin contact. Inhalation of the vapor released from the product as it dries is dependent upon the absence of proper ventilation during use of the product.

# **Acute Toxicity/Effects:**

EYES: Direct contact may cause irritation.

SKIN: May cause irritation to sensitive skin or open wounds. INHALATION: May cause irritation to respiratory passages. INGESTION: May cause nausea/gastrointestinal distress.

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

# SAFETY DATA SHEET

# Leak Stopper Clear Patch

Page 4 of 5

# SECTION 11 – TOXICOLOGICAL INFORMATION (continued from page 3)

No human toxicological studies (Oral, Inhalation or Dermal) have been conducted on this compounded product.

No animal toxicological studies (Oral, Inhalation or Dermal) have been conducted on this compounded product.

# **Chronic Toxicity/Effects:**

EYES: No data available. SKIN: No data available.

INHALATION: No data available. INGESTION: No data available.

# **SECTION 12 – ECOLOGICAL INFORMATION**

**Ecological Fate:** 

\* No data available.

Persistence/Degradability: \* No data available.

Bioaccumulation Potential: \* No data available.

Mobility in Soil:

\* No data available.

# **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose of unused product and/or empty containers in accordance with local, regional, national, and/or international regulations.

Do not discharge into drains/surface waters/groundwater or open ground/soil.

# **SECTION 14 – TRANSPORT INFORMATION**

DOT Proper Shipping Name: Not Regulated by D.O.T.

**DOT Hazard Class: None** 

DOT UN/NA Number: None

Packing Group: None

IMO/IMDG - International Maritime Transport Shipping Name: Not Regulated.

IATA – International Air Transportation Association: Not Regulated.

Do not transport this product on passenger seats or inside the passenger compartment of any vehicle. Transport product in the cargo area of the vehicle and secure it on and under protective cloths or plastic wrap to prevent damage due to accidental spills.

# SECTION 15 - REGULATORY INFORMATION

SARA Title III - No substances are contained in this product subject to the reporting requirements of EPCRA Section 313 of the Super Fund Amendments and Reauthorization Act, 40 CFR Part 372.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

California Proposition 65 Chemical Warning (California Health and Safety Code #25249.5 et seq): This product contains chemicals known to the state of California to cause cancer, birth defects or reproductive harm.

Page 5 of 5

# **SECTION 16 – OTHER INFORMATION**

# **Hazardous Materials Identification System (HMIS)**

Health Flammability P

**Physical Hazard** 

**Personal Protection Equipment (PPE)** 

B – Safety glasses and gloves

**Legend: 0 = Insignificant** 

1 = Slight

2 = Moderate

3 = High

Other Precautions: Keep out of the reach of children.

Protect from freezing.

1

# Disclaimer/Statement of Liability:

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to verify the suitability and completeness of such information for a particular use. Gardner-Gibson does not accept liability for any loss or damage that may occur from the use of this information.

Prepared by: Morton Jones

2-6-15

Product # 0338-GA

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# MOMENTIVE performance materials

# Material Safety Data Sheet

Version: 1.4 09/10/2007

# GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By:

**Waterford Plant** 

260 Hudson River Rd

Waterford NY 12188

Revised:

09/10/2007

Preparer:

PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

CHEMTREC

1-800-424-9300

Chemical Family/Use:

Sealant

Formula:

Mixture

**HMIS** 

Flammability:

Reactivity:

Health:

1

**NFPA** 

Flammability:

Reactivity:

0

Health:

1

# 2. HAZARDS IDENTIFICATION

# **EMERGENCY OVERVIEW**

WARNING! May be harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause central nervous system depression. May cause adverse reproductive effects. Adverse reproductive effects reported in animals.

Form: Solid

Color: White

Odor: Ammonia

#### POTENTIAL HEALTH EFFECTS

#### **INGESTION**

May be harmful if swallowed. May cause central nervous system effects. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

# SKIN

Skin irritation is possible after contact with the uncured product. Uncured product contact will irritate lips, gums and tongue. May be absorbed through skin and produce effects as listed under "Ingestion".

#### INHALATION

Causes mild respiratory tract irritation. Applies in uncured state. May also cause other effects as listed under "Ingestion".

# **EYES**

Eye irritation on contact with the uncured product.

#### MEDICAL CONDITIONS AGGRAVATED

Pre-existing skin or respiratory diseases.

#### SUBCHRONIC (TARGET ORGAN)

Skin; Central nervous system

# MOMENTIVE performance materials

# Material Safety Data Sheet

Version: 1.4 09/10/2007

# GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

#### **ROUTES OF EXPOSURE**

Inhalation; Dermal; Eyes; Oral.; Absorption through skin.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	CAS REG NO.	<u>WGT. %</u>	
A. HAZARDOUS			
DISTILLATES, PETROLEUM,HYDROTREATED	64742-47-8	5 - 10 %	
Hexamethyldisilazane	999-97-3	1 - 5 %	
Methyl trimethoxysilane	1185-55-3	1 - 5 %	
B. NON-HAZARDOUS			
Treated Filler	68611-44-9	10 - 30 %	
Polydimethylsiloxane	63148-62-9	10 - 30 %	
Methoxypolydimethylsiloxane	68037-58-1	30 - 60 %	

# 4. FIRST AID MEASURES

### **INGESTION**

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

# SKIN

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.

# INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

### **EYES**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.



# Material Safety Data Sheet

Version: 1.4 09/10/2007

# GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### NOTE TO PHYSICIAN

None known.

# 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** 

> 93.3 °C; 200 °F

METHOD:

estimated

**IGNITION TEMPERATURE:** 

Unknown

FLAMMABLE LIMITS IN AIR - LOWER (%):

Not applicable

FLAMMABLE LIMITS IN AIR - UPPER (%):

Not applicable

SENSITIVITY TO MECHANICAL IMPACT:

No

### SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is not expected.

# **EXTINGUISHING MEDIA**

All standard extinguishing agents are suitable.

#### SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear NIOSH/MSHA approved positive pressureself-contained breathing apparatus with full face mask and full protective clothing.

# 6. ACCIDENTAL RELEASE MEASURES

# ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

# 7. HANDLING AND STORAGE

# PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid contact with skin and eyes. Keep container tightly closed. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation. Product releases methanol during application and curing. Product releases ammonia during application and curing.

# **STORAGE**

Store away from heat, sources of ignition, and incompatibles. Keep out of the reach of children.

# MOMENTIVE performance materials

# Material Safety Data Sheet

Version: 1.4 09/10/2007

# GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **ENGINEERING CONTROLS**

Eyewash stations; Showers; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

### RESPIRATORY PROTECTION

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

### **PROTECTIVE GLOVES**

Cloth gloves.

### **EYE AND FACE PROTECTION**

Safety glasses

#### OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

# **Exposure Guidelines**

Component	CAS RN	<u>Source</u>	<u>Value</u>	
	•		<u>-</u>	

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT - C & F:** 

VAPOR PRESSURE (20 C) (MM HG):

FREEZING POINT:

MELTING POINT: PHYSICAL STATE:

ODOR:

COLOR:

**EVAPORATION RATE (BUTYL ACETATE=1):** 

SPECIFIC GRAVITY (WATER=1):

DENSITY:

ACID / ALKALINITY (MEQ/G):

VOLATILE ORGANIC CONTENT (VOL):

SOLUBILITY IN WATER (20 C):

Not applicable

Not applicable

Not applicable

Not applicable Solid

Ammonia White

< 1 1.05

ca. 1.05 g/cm3 Unknown

Not applicable 2.2 %(m)

Insoluble



# Material Safety Data Sheet

Version: 1.4 09/10/2007

# GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

SOLUBILITY IN ORGANIC SOLVENT (STATE

PARTIAL IN TOLUENE

SOLVENT):

VOC EXCL. H2O & EXEMPTS (G/L):

27

# 10. STABILITY AND REACTIVITY

# **STABILITY**

Stable

### HAZARDOUS POLYMERIZATION

Will not occur.

# HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Methanol; Carbon dioxide (CO2); Formaldehyde; Carbon monoxide; Ammonia; Silicon dioxide.

# **INCOMPATIBILITY (MATERIALS TO AVOID)**

None known.

### **CONDITIONS TO AVOID**

Vapor and/or liquid react with water to form ammonia.

# 11. TOXICOLOGICAL INFORMATION

#### **ACUTE ORAL**

Remarks: Unknown

# **ACUTE DERMAL**

Remarks: Unknown

# **ACUTE INHALATION**

Remarks: Unknown

# **OTHER**

Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

#### **SENSITIZATION**

No data available

### **SKIN IRRITATION**

No data available

# **EYE IRRITATION**

No data available

# **MUTAGENICITY**

Unknown

# MOMENTIVE performance materials

# Material Safety Data Sheet

Version: 1.4 09/10/2007

# GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### OTHER EFFECTS OF OVEREXPOSURE

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

# 12. ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

No data available

DISTRIBUTION

No data available

CHEMICAL FATE

No data available

# 13. DISPOSAL CONSIDERATIONS

#### **DISPOSAL METHOD**

Disposal should be made in accordance with federal, state and local regulations.

# 14. TRANSPORT INFORMATION

Further Information:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

# 15. REGULATORY INFORMATION

# **Inventories**

Canada DSL Inventory y (Positive listing)
Korea Existing Chemicals y (Positive listing)

Inventory (KECI)

China Inventory of Existing y (Positive listing)

Chemical Substances

Australia Inventory of Chemical y (Positive listing)

Substances (AICS)

Philippines Inventory of y (Positive listing)

Chemicals and Chemical

# MOMENTIVE performance materials

# Material Safety Data Sheet

Version: 1.4 09/10/2007

# GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

Substances (PICCS)

EU list of existing chemical v

y (Positive listing)

substances

Canada NDSL Inventory
Japan Inventory of Existing &

n (Negative listing) n (Negative listing)

New Chemical Substances

(ENCS)

TSCA list

y (Positive listing)

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

# **US Regulatory Information**

SARA (311,312) HAZARD CLASS

Acute Health Hazard; Chronic Health Hazard

SARA (313) CHEMICALS

# **Canadian Regulatory Information**

WHMIS HAZARD CLASS

D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

Other

**SCHDLE B/HTSUS:** 

3214.10 Mastic Based on Rubber

ECCN:

EAR99

#### **CALIFORNIA PROPOSITION 65**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

# 16. OTHER INFORMATION

# **OTHER**

C = ceiling limit NEGL = negligible EST = estimated NF = none found NA = notapplicable UNKN = unknown NE = none established REC = recommended ND = none determined V = recommended by vendor SKN = skin TS = trade secret R = recommended MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million ppb = parts per billion By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2)., These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.



#### Material Safety Data Sheet

Version: 1.4 09/10/2007

GE5010 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### Material Safety Data Sheet

Version: 1.3 09/10/2007

## GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By:

**Waterford Plant** 

260 Hudson River Rd

Waterford NY 12188

Revised:

09/10/2007

Preparer:

PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

CHEMTREC

1-800-424-9300

Chemical Family/Use:

Silicone Rubber

Formula:

Mixture

**HMIS** 

Flammability:

Reactivity:

Health:

1

**NFPA** 

Flammability:

n

Reactivity:

0

Health:

1

#### 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

WARNING! May be harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause central nervous system depression.

Form: Solid

Color: Black

Odor: Ammonia

#### **POTENTIAL HEALTH EFFECTS**

#### **INGESTION**

May be harmful if swallowed. May cause central nervous system effects. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

#### SKIN

Skin irritation is possible after contact with the uncured product. Uncured product contact will irritate lips, gums and tongue. May be absorbed through skin and produce effects as listed under "Ingestion".

#### **INHALATION**

Causes mild respiratory tract irritation. Applies in uncured state. May also cause other effects as listed under "Ingestion".

#### **EYES**

Eye irritation on contact with the uncured product.

#### **MEDICAL CONDITIONS AGGRAVATED**

Pre-existing skin or respiratory diseases.

#### SUBCHRONIC (TARGET ORGAN)

Skin; Central nervous system

#### Material Safety Data Sheet

Version: 1.3 09/10/2007

#### GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

#### **ROUTES OF EXPOSURE**

Inhalation; Dermal; Eyes; Oral.; Absorption through skin.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	CAS REG NO.	<u>WGT. %</u>	
A. HAZARDOUS			
DISTILLATES, PETROLEUM,HYDROTREATED	64742-47-8	1 - 5 %	
Hexamethyldisilazane	999-97-3	1 - 5 %	
Methyl trimethoxysilane	1185-55-3	1 - 5 %	
B. NON-HAZARDOUS			
Methoxypolydimethylsiloxane	68037-58-1	60 - 90 %	
Polydimethylsiloxane	63148-62-9	10 - 30 %	
Treated Filler	68611-44-9	10 - 30 %	

#### 4. FIRST AID MEASURES

#### INGESTION

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

#### SKIN

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.

#### **INHALATION**

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

#### **EYES**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

#### Material Safety Data Sheet

Version: 1.3 09/10/2007

# GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### NOTE TO PHYSICIAN

None known.

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT:

> 93 °C; 199 °F

METHOD:

estimated

**IGNITION TEMPERATURE:** 

Unknown

FLAMMABLE LIMITS IN AIR - LOWER (%):

Not applicable

FLAMMABLE LIMITS IN AIR - UPPER (%):

Not applicable

SENSITIVITY TO MECHANICAL IMPACT:

Nο

#### SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is not expected.

#### **EXTINGUISHING MEDIA**

All standard extinguishing agents are suitable.

#### SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear NIOSH/MSHA approved positive pressureself-contained breathing apparatus with full face mask and full protective clothing.

#### 6. ACCIDENTAL RELEASE MEASURES

#### ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

#### 7. HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid contact with skin and eyes. Keep container tightly closed. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation. Product releases methanol during application and curing. Product releases ammonia during application and curing.

#### **STORAGE**

Store away from heat, sources of ignition, and incompatibles. Keep out of the reach of children.

#### Material Safety Data Sheet

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## GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **ENGINEERING CONTROLS**

Eyewash stations; Showers; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

#### RESPIRATORY PROTECTION

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

#### PROTECTIVE GLOVES

Cloth gloves.

#### **EYE AND FACE PROTECTION**

Safety glasses

#### OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

#### **Exposure Guidelines**

<del></del>			
Component	CAS RN	Source	Value

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES.

BOILING POINT - C & F:

VAPOR PRESSURE (20 C) (MM HG):

FREEZING POINT: MELTING POINT:

PHYSICAL STATE:

ODOR:

COLOR: EVAPORATION RATE (BUTYL ACETATE=1):

SPECIFIC GRAVITY (WATER=1):

**DENSITY:** 

ACID / ALKALINITY (MEQ/G):

pH:

VOLATILE ORGANIC CONTENT (VOL):

**SOLUBILITY IN WATER (20 C):** 

Not applicable

Not applicable

Not applicable

Not applicable

Solid

Ammonia Black

< 1

1.05 ca. 1.048 g/cm3

Unknown

Not applicable

2.2 %(m)

Insoluble



#### Material Safety Data Sheet

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# GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

SOLUBILITY IN ORGANIC SOLVENT (STATE

PARTIAL IN TOLUENE

SOLVENT):

VOC EXCL. H2O & EXEMPTS (G/L):

27

#### 10. STABILITY AND REACTIVITY

#### **STABILITY**

Stable

#### HAZARDOUS POLYMERIZATION

Will not occur.

#### HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Methanol; Carbon dioxide (CO2); Carbon monoxide; Ammonia; Silicon dioxide.

#### **INCOMPATIBILITY (MATERIALS TO AVOID)**

None known.

#### **CONDITIONS TO AVOID**

Vapor and/or liquid react with water to form ammonia.

#### 11. TOXICOLOGICAL INFORMATION

#### **ACUTE ORAL**

Remarks: Unknown

#### **ACUTE DERMAL**

Remarks: Unknown

#### **ACUTE INHALATION**

Remarks: Unknown

#### OTHER

None.

#### **SENSITIZATION**

No data available

#### **SKIN IRRITATION**

No data available

#### **EYE IRRITATION**

No data available

#### MUTAGENICITY

Unknown

#### Material Safety Data Sheet

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#### GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

#### OTHER EFFECTS OF OVEREXPOSURE

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive., Methanol released during curing.

#### 12. ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

No data available

DISTRIBUTION

No data available

**CHEMICAL FATE** 

No data available

#### 13. DISPOSAL CONSIDERATIONS

#### **DISPOSAL METHOD**

Disposal should be made in accordance with federal, state and local regulations.

#### 14. TRANSPORT INFORMATION

**Further Information:** 

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

#### 15: REGULATORY INFORMATION

#### Inventories

Canada DSL Inventory

y (Positive listing)

Korea Existing Chemicals

y (Positive listing)

Inventory (KECI)

China Inventory of Existing

y (Positive listing)

Chemical Substances

Australia Inventory of Chemical

y (Positive listing)

Substances (AICS)

Philippines Inventory of

y (Positive listing)

Chemicals and Chemical

#### Material Safety Data Sheet

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#### GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant

Substances (PICCS)

EU list of existing chemical

y (Positive listing)

substances

Canada NDSL Inventory Japan Inventory of Existing & n (Negative listing)

n (Negative listing)

**New Chemical Substances** 

(ENCS)

TSCA list

y (Positive listing)

Listed on TSCA

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

#### **US Regulatory Information**

#### SARA (311,312) HAZARD CLASS

Acute Health Hazard; Chronic Health Hazard

#### **SARA (313) CHEMICALS**

58-36-6, 10, 10'-oxybisphenoxarsine

#### Canadian Regulatory Information

#### WHMIS HAZARD CLASS

D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

#### Other

SCHDLE B/HTSUS:

3214.10.00.10 Mastic based on rubber

ECCN:

EAR99

#### **CALIFORNIA PROPOSITION 65**

WARNING! This product contains a chemical known in the State of California to cause cancer. 108-88-3, Toluene.

#### 16. OTHER INFORMATION

#### OTHER

C = ceiling limit NEGL = negligible EST = estimated NF = none found NA = notUNKN = unknown NE = none established applicable REC = recommended ND = none V = recommended by vendor SKN = skin determined TS = trade secret R = MST = mist NT = not tested STEL = short term exposure limit ppm = recommended ppb = parts per billion By-product= reaction by-product, TSCA inventory status parts per million not required under 40 CFR part 720.30(h-2)., These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.



#### Material Safety Data Sheet

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GE5030 12C-Crtrg (0.730 Lbs-0.331 Kg) Silicone Rubber Sealant



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Akona Manufacturing, LLC. 2025 Centre Point Boulevard, Suite 300 Mendota Heights, MN 55120-1221 **Emergency Telephone Number:** 651-688-9116

Revision Date May 2015

**Information Telephone Number** 651-905-8137

Section 1: Product Identification

Product Type: Sealant & Adhesive

**Akona Product Name:** 

Akona Commercial Grade Mortar Repair

#### Section 2: Hazard Identification

#### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance:

Gray paste

**Physical State:** 

Textured paste

Odor:

Mild acrylic

#### Section 3: Hazardous Ingredients/Composition

Chemical Name	CAS No	Weight-%
Calcium Carbonate	1317-65-3	<40
Acrylic Emulsion	MIXTURE	<30
Crystalline silica	14808-60-7	<10
Benzoate Ester	Proprietary	<7
Titanium dioxide	13463-67-7	<1.0
Non-hazardous Ingredients*	Proprietary	<15
Ammonium Hydroxide	7664-41-7	<0.12
Carbon Black	1333-86-4	<0.05
Petroleum Hydrocarbon	64742-48-9	<0.75

<sup>\*</sup> Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Calcium Carbonate, Titanium Dioxide, Carbon Black and Silica) Inhalation of particulates unlikely due to product's physical state. (Carbon Black) May be present in colors other than White.



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#### Section 4: First Aid Measures

#### First Aid Measures

#### General Advice:

Provide this SDS to medical personnel for treatment.

#### **Eye Contact:**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.

#### **Skin Contact:**

Wash with soap and water for at least 15 minutes. Get medical attention if symptoms persist. Remove and wash contaminated clothing.

#### Inhalation:

Remove to fresh air if breathing is difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.

#### Ingestion:

Do note induce vomiting unless directed by medical personnel. If vomiting occurs, lean patient forward to maintain an open airway and prevent aspiration. Get immediate medical attention.

#### <u>Most Important Symptoms and Effects, both Acute and Delayed</u> Symptoms:

Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.

# <u>Indication of any Immediate Medical Attention and Special Treatment Needed</u> Note to Physicians:

Provide general supportive measures and treat symptomatically.

Medical Conditions Aggravated By Exposure: Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product.

#### Section 5: Fire Fighting Measures

#### Suitable Extinguishing Media:

Carbon dioxide (CO2). Dry chemical. Water spray (fog). Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: Not determined.



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#### Specific Hazards Arising from the Chemical:

Product is combustible & may ignite if exposed to high temperature or direct flame.

#### Hazardous combustion products:

Carbon, titanium & iron oxides, depending upon formulation.

#### **Protective Equipment and Precautions for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

#### Section 6: Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

#### Personal precautions:

Wear protective clothing as described in Section 8 of this safety data sheet.

#### Other Information:

Small Spills: 1 drum or less – Level D Equipment (gloves, chemical resistant apron, boots and eye protection).

Large Spills: Rubber gloves, rubber boots, face shield & Tyvek suit as a minimum. Minimum level of PPE for releases in which the oxygen level is < 19.5% or is unknown, should be Level B: triple gloves (rubber gloves & nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing & boots, hard hat & self-contained breathing apparatus.

For Emergency Responders: Restrict access to spill area.

#### **Environmental precautions:**

Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater. Do not allow discharge containing this material to enter streams, ponds, estuaries, oceans or other waters unless in accordance w/ requirements of National Pollutant Discharge Elimination System (NPDES) permit & permitting authority has been notified in writing prior to discharge. Do not allow discharge containing this material to enter sewer systems w/o previously notifying local sewage treatment plant authority. For information, contact State Water Board or EPA Regional Office.

Other: U.S. regulations may require reporting of spills of this material reaching surface waters if sheen is formed.

#### Methods and Material for Containment and Cleaning up



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#### **Methods for Containment:**

Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill.

#### Methods for Cleaning Up:

Sweep up absorbed material and shovel into suitable containers for disposal. Wash area with soap and water. For waste disposal, see section 13 of the SDS.

#### Section 7: Handling and Storage

#### Precautions for Safe Handling

#### Advice on Safe Handling:

Avoid breathing vapors. Use only with adequate ventilation. Open windows & doors to ensure fresh air cross-ventilation during application and curing. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes or clothing. While handling product keep out of reach of children and pets. Do not eat or drink while handling this material. See section 6 of this SDS for clean up instructions.

#### <u>Conditions for Safe Storage, Including any Incompatibilities</u> Storage Conditions:

Keep tightly closed in a dry and cool place. Close container after each use. Store containers away from excessive heat & freezing. Do not store at temperatures above 120°F (49°C). Protect from direct sunlight. Store away from incompatible materials. To maximize shelf life, store at temperatures below 80°F (26°C).

#### Incompatible Materials:

Strong oxidizing agents. Strong bases.

#### Section 8: Exposure Controls/Personal Protection

#### **Exposure Guidelines**

Exposure guidelines / protective equipment are for routine handling and accidental spills

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate	-	TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
1317-65-3		total dust	total dust
		TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
		respirable fraction	respirable dust
		(vacated) TWA: 15	·
		mg/m³ total	
		dust	
		(vacated) TWA: 5	
		mg/m <sup>3</sup>	
		respirable fraction	



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0 ( 111 )			
Crystalline silica	TWA: 0.025 mg/m <sup>3</sup>	(vacated) TWA: 0.1	IDLH: 50 mg/m <sup>3</sup>
14808-60-7	respirable fraction	mg/m³	respirable dust
		respirable dust	TWA: 0.05 mg/m <sup>3</sup>
		: (30)/(%SiO2 + 2)	respirable
		mg/m³ TWA	dust
		total dust	
		: (250)/(%SiO2 + 5)	
		mppcf TWA	]
		respirable fraction	
		: (10)/(%SiO2 + 2)	
		mg/m³ TWA	
		respirable fraction	
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	total dust	DETT. 3000 Mg/M
101000.		(vacated) TWA: 10	
		mg/m <sup>3</sup> total	]
		dust	
Ammonium	STEL: 35 ppm	TWA: 50 ppm	IDI H. 200 nnm
Hydroxide	TWA: 25 ppm	TWA: 35 mg/m <sup>3</sup>	IDLH: 300 ppm
7664-41-7	I VVA. 25 ppm		TWA: 25 ppm
7004-41-7		(vacated) STEL: 35	TWA: 18 mg/m <sup>3</sup>
		ppm	STEL: 35 ppm
		(vacated) STEL: 27	STEL: 27 mg/m <sup>3</sup>
	7344	mg/m <sup>3</sup>	
Carbon Black	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup>
1333-86-4	inhalable fraction	(vacated) TWA: 3.5	TWA: 3.5 mg/m <sup>3</sup>
		mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
			Carbon black in
			presence of
			Polycyclic aromatic
			hydrocarbons PAH
Petroleum	ACGIH TWA: 5	<b>=</b>	-
Hydrocarbon	mg/m3; ACGIH		,
64742-48-9	STEL: 10 mg/m <sup>3</sup>		

#### **Appropriate Engineering Controls**

#### **Engineering Controls:**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

#### Individual Protection Measures, such as Personal Protective Equipment

#### **Eye/Face Protection:**

Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations & standards.

# AKONA

#### **Safety Data Sheet**

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#### Skin and Body Protection:

Skin: Wear chemical impervious gloves (eg: Nitrile or Neoprene). Use triple gloves for spill response. If necessary, refer to appropriate regulations and standards.

Body: Use protection appropriate for task (eg: lab coat, coveralls, Tyvek suit). If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment) or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations and standards.

#### Respiratory Protection:

If mists or sprays are created, use appropriate respiratory protection. Oxygen levels below 19.5% considered IDLH by OSHA. In such instances, use full-facepiece pressure demand SCBA or a full facepiece, supplied air respirator w/ auxillary self-contained air supply.

#### **General Hygiene Considerations:**

Handle in accordance with good industrial hygiene and safety practice.

#### Section 9: Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

Physical State:

Textured paste

Appearance:

Gray paste

Color:

Grav

Odor:

Mild acrylic

Odor Threshold:

Not determined

**Property** 

Note: The information below is not

Remarks -Method

intended for use in preparing product specifications

pH:

7.0-9.0

**Melting Point/Freezing Point:** 

< 0°C / < 32°F

**Boiling Point/Boiling Range:** 

Not estabilished

Flash Point:

> 93.33°C / > 200°F

**Evaporation Rate:** 

Not determined

Flammability (Solid, Gas):

Not determined

**Upper Flammability Limits:** 

Unknown

Lower Flammability Limits:

Unknown

Vapor Pressure:

Not established

Vapor Density:

Heavier than air

Relative Density (Specific Gravity):

~1.50 - 2.00

@ 25°C (77°F)

Water Solubility:

Appreciable before cure



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Solubility in Other Solvents:

Not determined

**Partition Coefficient:** 

Not determined

**Autoignition Temperature:** 

Unknown

**Decompostion Temperature:** 

Not determined

Kinematic Viscosity: Dynamic Viscosity:

Not determined

Explosive Properties:

Not determined

Oxidizing Properties:

Not determined Not determined

VOC Content (%): VOC Content:

<1.5%

<25 g/L

#### Section 10: Stability and Reactivity

#### Reactivity

Cures upon contact with air.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur.

#### Conditions to avoid

Incompatible Materials. Excessive heat or cold.

#### **Incompatible Materials**

Strong oxidizing agents. Strong bases.

#### **Hazardous Decomposition Products**

Thermal decomposition can generate irritating dust, fumes and toxic gases (carbon, titanium, and iron oxides, depending upon formulation).

#### Section 11: Toxicological Information

#### Information on Likely Routes of Exposure

#### **Product Information**

#### Eye Contact:

Eye contact may result in tearing, redness & pain.

#### **Skin Contact:**

Prolonged and frequent contact may cause redness and irritation. Repeated skin contact may cause dermatitis.



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#### Inhalation:

Overexposure to vapors during application & curing may mildly irritate respiratory tract and result in coughing & sneezing.

#### Ingestion:

May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Crystalline silica 14808-60-7	= 500 mg/kg ( Rat )	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg ( Rat ) -	-	-
Ammonium Hydroxide 7664-41-7	= 350 mg/kg ( Rat )	-	= 5.1 mg/L ( Rat ) 1 h = 2000 ppm ( Rat ) 4 h
Carbon Black 1333-86-4	> 15400 mg/kg(Rat)	> 3 g/kg(Rabbit)	_
Petroleum Hydrocarbon 64742-48-9	> 5000 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	_

#### Information on Physical, Chemical and Toxicological Effects

#### Symptoms:

Please see section 4 of this SDS for symptoms.

### <u>Delayed and Immediate Effects as well as Chronic Effects from Short and Longterm Exposure</u>

#### Sensitization:

Not known to be human skin or respiratory sensitizers.

#### Carcinogenicity:

The table below indicates whether each agency has listed any ingredient as a carcinogen. Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Carbon black is a possible carcinogen when it appears as a respirable dust. Crystalline Silica is considered to be a human carcinogen when in respirable form (dust / powder). Trace residual Formaldehyde present in base emulsion viewed as possible cancer hazard.



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Chemical Name	ACGIH	IARC	NTP	OSHA
Crystalline silica 14808-60-7	A2	Group 1	Known	Х
Titanium dioxide 13463-67-7		Group 2B		Х
Carbon Black 1333-86-4	A3	Group 2B		Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

#### **Target Organ Effects:**

Acute: Eyes & Skin. Chronic: Skin.

#### **Numerical Measures of Toxicity**

Not determined

#### Section 12: Ecological Information

#### **Ecotoxicity**

PRACTICES SHOULD BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

Product not tested for aquatic or animal toxicity. Release of product to terrestrial, atmospheric & aquatic environments should be avoided.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisims	Crustacea
Ammonium Hydroxide 7664-41-7		0.44: 96 h Cyprinus carpio mg/L LC50 0.26 - 4.6: 96 h Lepomis macrochirus mg/L LC50 1.17: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.73 - 2.35: 96 h Pimephales promelas mg/L LC50 5.9: 96 h Pimephales promelas		25.4: 48 h Daphnia magna mg/L LC50



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	mg/L LC50 static 1.5: 96 h Poecilia reticulata mg/L LC50 1.19: 96 h Poecilia reticulata mg/L LC50 static	
Carbon Black 1333-86-4		5600: 24 h Daphnia magna mg/L EC50
Petroleum Hydrocarbon 64742-48-9	2200: 96 h Pimephales promelas mg/L LC50	2.6: 96 h Chaetogammarus marinus mg/L LC50

#### Persistence and Degradability

Not tested for persistence & biodegradability

#### Bioaccumulation

Not tested for bio-accumulation potential

#### Mobility

Not tested for mobility in soil

Chemical Name	Partition Coefficient
Ammonium Hydroxide	-1.14
7664-41-7	

#### Other Adverse Effects

Environmental Exposure Controls: Should be maintained so as to prevent release to the environment (atmospheric release, release to waterways & spills).

#### Ozone

Not expected to produce any ozone depletion

#### **Section 13: Disposal Considerations**

#### **Waste Treatment Methods**

#### Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.



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#### **US EPA Waste Number**

Not applicable.

#### Section 14: Transportation

#### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

#### Section 15: Regulatory Information

#### **International Inventories**

TSCA Listed DSL Listed NDSL Listed

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical

Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **US Federal Regulations**

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium Hydroxide	100 lb.	100 lb.	RQ 100 lb final RQ RQ 45.4 kg final RQ
7664-41-7			



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SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 – Threshold Values %
Ammonium Hydroxide 7664-41-7	7664-41-7	<0.12	1.0

#### **CWA (Clean Water Act)**

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Ammonium Hydroxide 7664-41-7 ( <0.12 )	100 lb.			x

#### **US State Regulations**

#### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Crystalline silica - 14808-60-7	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen
Carbon Black - 1333-86-4	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Carbonate	X	X	X
1317-65-3			
Crystalline silica	X	X	Х
14808-60-7			
Titanium dioxide	X	Х	Х
13463-67-7			
Ammonium Hydroxide	X	X	X
7664-41-7			
Carbon Black	X	X	Х



Commercial Grade Mortar Repair Tube © Akona Manufacturing LLC. Version 1.0

1333-86-4

Section 16: Other Information				
<u>NFPA</u>	Health Hazards 1	Flammability 1	<b>Instability</b> 0	Special Hazards Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	1	0	Not determined

Additional information on the products is available at. www.akonallc.com

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.

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# Safety Data Sheet

24 Hour Emergency Phone Numbers:

Medical/Poison Control:

In U.S.: Call 1-800-222-1222 Outside U.S.: Call your local poison

control center

Transportation/National Response

Center:

1-800-535-5053 1-352-323-3500

NOTE: The National ResponseCenter emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

#### 1. Identification

This Material Safety Data Sheet is available in American Spanish upon request. Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

**Product Name:** 

3.0 Kitchen, Bath & Plumbing Sealant -

**Revision Date:** 

5/8/2015

Product UPC Number:

00795

Crystal Clear

Supercedes Date:

6/25/2012

Product Use/Class:

Caulking Compound

SDS No:

00010079001

Manufacturer:

DAP Products Inc.

2400 Boston Street Suite 200 Baltimore, MD 21224-4723

888-327-8477 (non-emergency matters)

Preparer:

Regulatory Department

#### 2. Hazards Identification

**EMERGENCY OVERVIEW:** Under normal use conditions, this product is not expected to cause adverse health effects. High concentration of vapors may cause irritation to eyes and respiratory system.

#### **GHS Classification**

Eye Irrit. 2, Skin Irrit. 2

#### Symbol(s) of Product



Signal Word Warning

Skin Irritation, category 2 H315 Causes skin irritation.

Eye Irritation, category 2 H319 Causes serious eye irritation.

#### ABEL PRECAUTIONARY STATEMENTS

Wear protective gloves/protective clothing/eye protection/face protection.

P352 IF ON SKIN: Wash with plenty of water/...

P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

. 22. P313 If eye irritation persists; Get medical advice/attention.

P362 Take off contaminated clothing.

#### 3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. % G	SHS Symbols	<b>GHS Statements</b>
Proprietary Phthalate Esters	Proprietary	25-50 G	GHS07	H332
Cyclotetrasiloxane, octamethyl-, reaction prods. with	68583-49-3	2.5-10 G	GHS07	H315-319-335
silica				
3-(trimethoxysilyl)propylamine		1.0-2.5 G	3HS07	H315-319
Organosilane Ester	2768-02 <b>-</b> 7	1.0-2.5	GHS02-GHS07	H225-332
Proprietary Phthalate Esters	Proprietary	1.0-2.5 G	3HS06	H331
Silica, amorphous	7631-86-9	1.0-2.5 G	GHS07	H332

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

#### 4. First-aid Measures

FIRST AID - INHALATION: Material is not likely to present an inhalation hazard at ambient conditions. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

FIRST AID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist.

FIRST AID - EYE CONTACT: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

#### 5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

#### Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Scrape up dried material and place into containers. Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

#### 7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDREN!DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Wash thoroughly after handling.

STORAGE: Avoid excessive heat and freezing. Do not store at temperatures above 120 degrees F. Store away from caustics and oxidizers.

#### 8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Proprietary Phthalate Esters	N.E.	N.E.	N.E.	N.E.
Cyclotetrasiloxane, octamethyl-, reaction prods. with silica	N.E.	N.E.	N.E.	N.E.
3-(trimethoxysilyl)propylamine	N.E.	N.E.	N.E.	N.E.
Organosilane Ester	N.E.	N.E.	N.E.	N.E.
Proprietary Phthalate Esters	N.E.	N.E.	N.E.	N.E.
Silica, amorphous	N.E.	N.E.	N.E.	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

#### **Personal Protection**



RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required.



**SKIN PROTECTION:** Wear nitrile or neoprene gloves. Natural rubber, butyl rubber and polyvinyl chloride gloves are not suitable protection against phthalates such as diisodecyl phthalate and diisononyl phthalate; neoprene is recommended.



EYE PROTECTION: Goggles or safety glasses with side shields.



OTHER PROTECTIVE EQUIPMENT: Not required under normal use.



Vapor Density:

Combustibility:

**HYGIENIC PRACTICES:** Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

#### 9. Physical and Chemical Properties

Appearance: Clear Physical State: Paste Odor: Slight Odor Threshold: Not Established Density, g/cm3: 1.03 - 1.04pH: Not Applicable Freeze Point, °C: Not Established Viscosity (mPa.s): Not Established Solubility in Water: Not Established Partition Coeff., n-octanol/water: Not Established Decomposition Temperature, °C: Not Established Explosive Limits, %: N.I. - N.I. Boiling Range, °C: N.I. - N.I. Auto-Ignition Temperature, °C Not Established Minimum Flash Point, °C: 93.3 Vapor Pressure, mmHg: No Information Slower Than n-Butyl Acetate **Evaporation Rate:** Flash Method: Seta Closed Cup

(See "Other information" Section for abbreviation legend)
(If product is an aerosol, the flash point stated above is that of the propellant.)

Heavier Than Air

Does not Support Combustion

#### 10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Incompatible with strong bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

#### 11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Under normal use conditions, this product is not expected to cause adverse health effects. During application and cure, this product releases methanol. Methanol may affect the brain or nervous system causing dizziness, headache or nausea. Inhalation of vapors in high concentration may cause mild irritation of respiratory system (nose, mouth, mucous membranes).

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Under normal use conditions, this product is not expected to cause adverse health effects. Prolonged or repeated contact with skin may cause mild irritation.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Under normal use conditions, this product is not expected to cause adverse health effects. Direct eye contact may cause irritation.

**EFFECT OF OVEREXPOSURE - INGESTION:** Under normal use conditions, this product is not expected to cause adverse health effects. Single dose oral toxicity is very low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury. Ingestion may result in obstruction when material hardens.

**CARCINOGENICITY:** No Information

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Inhalation, Skin Contact

#### **Acute Toxicity Values**

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u> 68515-49-1	<u>Chemical Name</u> Proprietary Phthalate Esters	Oral LD50 >60000 mg/kg Rat	<u>Dermal LD50</u> 16000 mg/kg Rabbit	Vapor LC50 >12.54 mg/L Rat
68583-49-3	Cyclotetrasiloxane, octamethyl-, reaction prods. with silica	>5000 mg/kg Rat	N.I.	N.I.
13822-56-5	3-(trimethoxysilyl)propylamine	2968 mg/kg Rat	11292 mg/kg Rabbit	N.I.
2768-02-7	Organosilane Ester	11000 mg/kg Rat	3259.2 mg/kg Rabbit	>20 mg/L
68515-48-0	Proprietary Phthalate Esters	2550 mg/kg Rat	>3160 mg/kg Rabbit	> 4.4 mg/L Rat
7631-86-9	Silica, amorphous	>3300 mg/kg Rat	>5000 mg/kg Rabbit	>20 mg/L

N.I. = No Information

#### 12. Ecological Information

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

#### Disposal Information

**DISPOSAL METHOD:** This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Scrape

up dried material and place into containers. Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

#### 14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

**DOT Proper Shipping Name:** 

Not Regulated.

**DOT Technical Name:** 

N.A.

**Hazard SubClass:** 

N.A.

**DOT Hazard Class:** 

N.A.

DOT UN/NA Number:

N.A.

Packing Group:

N.A.

#### Regulatory Information

#### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

#### TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA12(b) components exist in this product in concentrations at or above their thresholds.

#### CALIFORNIA PROPOSITION 65 CARCINOGENS

This product does not contain any chemicals known to the State of California to cause cancer.

#### CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

#### International Regulations: As follows -

#### **CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class

Consumer Commodity.

#### 16. Other Information

Revision Date: 5/8/2015 Supersedes Date: 6/25/2012

Reason for revision: HazCom2012/GHS Conversion

Datasheet produced by: Regulatory Department

**HMIS Ratings:** 

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

VOC Less Water Less Exempt, g/L:24.7

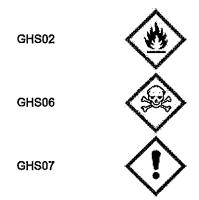
VOC, Material, g/L:25

VOC as Defined by California Consumer Product Regulation, Wt/Wt%:2.3

#### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

#### Icons for GHS Pictograms shown in Section 3 describing each ingredient:



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

SDS Number: 00008687001 Revision Date: 5/19/2015



# Safety Data Sheet

24 Hour Emergency Phone Numbers:

Medical/Poison Control:

In U.S.: Call 1-800-222-1222 Outside U.S.: Call your local poison

control center

Transportation/National Response Center:

1-800-535-5053 1-352-323-3500

NOTE: The National ResponseCenter emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

#### 1. Identification

This Material Safety Data Sheet is available in American Spanish upon request. Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:

100% Silicone Window & Door Clear

Revision Date:

5/19/2015

Product UPC Number:

08641

Supercedes Date:

No Information

Product Use/Class:

Caulking Compound

SDS No:

00008687001

Manufacturer:

DAP Products Inc.

2400 Boston Street Suite 200 Baltimore, MD 21224-4723

888-327-8477 (non-emergency matters)

Preparer:

Regulatory Department

#### 2. Hazards Identification

**EMERGENCY OVERVIEW:** Under normal use conditions, this product is not expected to cause adverse health effects. High concentration of vapors may cause irritation to eyes and respiratory system.

#### GHS Classification

Not a hazardous substance or mixture.

#### Symbol(s) of Product

Not a hazardous substance or mixture.

#### Signal Word

Not a hazardous substance or mixture.

#### 3. Composition/Information on Ingredients

Chemical Name

Hydrotreated middle distillate

CAS-No. 64742-46-7 Wt. % GHS Symbols 10-25 GHS06 GHS Statements H331 SDS Number: 00008687001 Revision Date: 5/19/2015

Silica, amorphous 7631-86-9 2.5-10 GHS07 H332

Silanetriol, methyl-, triaceta 4253-34-3 2.5-10 GHS07 H302-312-315-319-332

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

#### 4. First-aid Measures

**3T AID - INHALATION:** Material is not likely to present an inhalation hazard at ambient conditions. If you experience difficulty in thing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

TAID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist.

it AID - EYE CONTACT: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until ...dion subsides. Get medical attention immediately.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

#### 5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS; None known.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

#### 6. Accidental Release Measures

**ENVIRONMENTAL MEASURES:** No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled material and remove with inert absorbent.

Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Scrape up dried material and place into containers. Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

#### 7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDREN!DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Wash thoroughly after handling. Remove contact lenses before using. Do not handle contact lenses until all sealant has been cleaned from fingertips, nails and cuticles. Residual sealant may transfer to contact lenses and cause severe eye irritation.

STORAGE: Avoid excessive heat and freezing. Do not store at temperatures above 120 degrees F. Store away from caustics and oxidizers.

#### 8. Exposure Controls/Personal Protection

#### Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Hydrotreated middle distillate	N.E.	N.E.	N.E.	N.E.
Silica, amorphous	N.E.	N.E.	N.E.	N.E.
Silanetriol, methyl-, triaceta	N.E.	N.E.	N.E.	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

SDS Number: 00008687001 Revision Date: 5/19/2015

#### Personal Protection



RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required.



SKIN PROTECTION: Wear nitrile or neoprene gloves.



EYE PROTECTION: Goggles or safety glasses with side shields.



OTHER PROTECTIVE EQUIPMENT: Not required under normal use.



HYGIENIC PRACTICES: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

#### Physical and Chemical Properties

Appearance: Odor: Acetic Acid Density, g/cm3: 0.96 - 0.96Freeze Point, °C: Not Established Solubility in Water:

Decomposition Temperature, °C:

Boiling Range, °C: Minimum Flash Point, °C: 93.3

**Evaporation Rate:** 

Vapor Density:

Combustibility:

Clear

Not Established

Not Established N.I. - N.I.

Slower Than n-Butyl Acetate Heavier Than Air

Does not Support Combustion

pH:

Flash Method:

Physical State: No Information Odor Threshold: Not Established

Not Established

Viscosity (mPa.s): Not Established Partition Coeff., n-octanol/water: Not Established

Explosive Limits, %: N.I. - N.I.

Auto-Ignition Temperature, °C Not Established Vapor Pressure, mmHg: No Information Seta Closed Cup

(See "Other information" Section for abbreviation legend)

(If product is an aerosol, the flash point stated above is that of the propellant.)

#### Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Oxidizing agents. Excessive heat and freezing. INCOMPATIBILITY: Incompatible with strong bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

#### Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Under normal use conditions, this product is not expected to cause adverse health effects. During application and cure, this product releases methanol. During application and cure, this product releases acetic acid. Inhalation of vapors in high concentration may cause mild irritation of respiratory system (nose, mouth, mucous membranes).

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Under normal use conditions, this product is not expected to cause adverse health effects. Prolonged or repeated contact with skin may cause mild irritation.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Under normal use conditions, this product is not expected to cause adverse health effects. Direct eye contact may cause irritation.

EFFECT OF OVEREXPOSURE - INGESTION: Under normal use conditions, this product is not expected to cause adverse health

SDS Number: 00008687001 Revision Date: 5/19/2015

effects. Single dose oral toxicity is very low. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of large amounts may cause injury. Ingestion may result in obstruction when material hardens.

**CARCINOGENICITY:** No Information

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Inhalation, Skin Contact

#### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64742-46-7	Hydrotreated middle distillate	7400 mg/kg Rat	>2000 mg/kg Rabbit	4.6 mg/L Rat
7631-86-9	Silica, amorphous	>3300 mg/kg Rat	>5000 mg/kg Rabbit	>20 mg/L
4253-34-3	Silanetriol, methyl-, triaceta	1602 mg/kg Rat	1060 mg/kg Rabbit	11.6 mg/L

N.I. = No Information

#### Ecological Information

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

#### 13. Disposal Information

DISPOSAL METHOD: This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Scrape up dried material and place into containers. Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

#### 14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT Proper Shipping Name:

Not Regulated

**DOT Technical Name:** 

N.A. **DOT Hazard Class:** N.A. Hazard SubClass: DOT UN/NA Number: N.A. N.A.

Packing Group:

N.A.

#### 15. Regulatory Information

#### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

SDS Number: 00008687001 Revision Date: 5/19/2015

No Sara 313 components exist in this product.

#### TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA12(b) components exist in this product in concentrations at or above their thresholds.

#### CALIFORNIA PROPOSITION 65 CARCINOGENS

This product does not contain any chemicals known to the State of California to cause cancer.

#### CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

#### International Regulations: As follows -

#### CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class

Consumer Commodity

#### 16. Other Information

Revision Date: 5/19/2015 Supersedes Date: No Information

Reason for revision: HazCom2012/GHS Conversion

Datasheet produced by: Regulatory Department

**HMIS Ratings:** 

Health:	1	Flammability:	1	Reactivity:	0	Personal Protection:	Χ

VOC Less Water Less Exempt, g/L:28.9

VOC, Material, g/L:29

VOC as Defined by California Consumer Product Regulation, Wt/Wt%:3.0

#### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS06



**GHS07** 



SDS Number: 00008687001 Revision Date: 5/19/2015

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.



#### MATERIAL SAFETY DATA SHEET

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# DI150 - WET OR DRY SURFACE FIBERED PLASTIC ROOF CEMENT

1. Product And Company Identification

Supplier

**HENRY COMPANY** 

999 N. Sepulveda Blvd., Suite 800 El Segundo, CA 90245-2716

Company Contact: Technical Services Telephone Number: (800) 486-1278

Web Site: www.henry.com www.bakor.com

Supplier Emergency Contacts & Phone Number

CHEMTREC: (800) 424-9300 CHEMTREC: (703) 527-3887 CANUTEC: (613) 996-6666 Manufacturer

HENRY COMPANY

999 N. Sepulveda Blvd., Suite 800 El Segundo, CA 90245-2716

Company Contact: Technical Services Telephone Number: (800) 486-1278

Web Site: www.henry.com www.bakor.com

Manufacturer Emergency Contacts & Phone Number

CHEMTREC: (800) 424-9300 CHEMTREC: (703) 527-3887 CANUTEC: (613) 996-6666

Issue Date: 10/24/2011

Product Name: DI150 - WET OR DRY SURFACE FIBERED PLASTIC ROOF CEMENT

Product Code: DI150

#### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
petroleum asphalt	8052-42-4	30 - 50
attapulgite	12174-11-7	1-5
bentonite	1302-78-9	1-5
cellulose fiber	9004-34-6	5 - 10
stoddard solvent	8052-41-3	5 - 15
water	7732-18-5	20 - 40

Substances in this product have been pre-registered in accordance with the REACH Regulation - (EC) No. 1907/2006. See Section 15 for additional information. Stoddard Solvent (general CAS# 8052-41-3) is more specifically identified by CAS# 64742-88-7.

#### **EMERGENCY OVERVIEW**

CAUTION! Combustible Liquid. Central nervous system depressant. Vapor may cause light-headedness, headache, nausea, loss of coordination and respiratory tract irritation. Causes skin irritation.

Appearance/Odor: Black liquid, strong petroleum solvent odor

#### 3. Hazards Identification

#### Primary Routes(s) Of Entry

Inhalation

#### Eye Hazards

May cause eye irritation (burning, tearing, redness or swelling).

#### Skin Hazards

May cause skin irritation and contact dermatitis upon prolonged contact.



Page 2 of 6

## DI150 - WET OR DRY SURFACE FIBERED PLASTIC ROOF CEMENT

#### 3. Hazards Identification - Continued

#### Ingestion Hazards

May be harmful if swallowed. May cause gastric distress, vomiting and diarrhea.

#### Inhalation Hazards

Exposure to vapors may cause respiratory tract irritation. Inhalation of vapors or mists may cause central nervous depression, light-headedness, headache, nausea and loss of coordination.

#### :/Carcinogenicity Effects

the ingredients of this product comprising over 0.1% are classified as carcinogenic according to OSHA, I Toxicology Program (NTP), International Agency for Research on Cancer (IARC) or the American Conference ernmental Industrial Hygienists (ACGIH).

#### 4. First Aid Measures

#### Eve

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

#### Skin

Remove contaminated clothing and shoes. Wash affected areas with soap and water.

#### Ingestion

Get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. Call a physician or poison control center immediately.

#### Inhalation

Remove the person from the contaminated area to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately.

#### Note To Physician

Aspiration of liquid into the lungs during swallowing or vomiting can cause lung inflammation, serious lung damage and even death from chemical pneumonitis.

#### 5. Fire Fighting Measures

Flash Point: 105 °F

Flash Point Method: Setaflash Lower Explosive Limit: 0.9 Upper Explosive Limit: 6.0

#### Fire And Explosion Hazards

Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

#### Extinguishing Media

Chemical foam, carbon dioxide (CO2), water fog or dry chemical.

#### Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

#### 6. Accidental Release Measures

Collect and dispose in accordance with applicable regulations.

#### 7. Handling And Storage

#### Handling And Storage Precautions

Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Do not handle or store near strong oxidants or strong acids. Use only with adequate ventilation.

Page 3 of 6

# DI150 - WET OR DRY SURFACE FIBERED PLASTIC

#### 8. Exposure Controls/Personal Protection

#### **Engineering Controls**

Use with adequate general and local exhaust ventilation. When used outdoors, stay well away from building air intakes or close and seal the intakes to prevent product from entering building.

#### **Eye/Face Protection**

Safety glasses with side shields or goggles recommended.

#### **Skin Protection**

Use with chemical-protective gloves to prevent skin contact.

#### **Respiratory Protection**

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

The level of respiratory protection needed should be based on the evaluation of chemical exposures by a health or safety professional. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge and particulate filter or supplied air respirator.

Occupational Exposure Limits for individual ingredients (if available) are listed below.

#### Ingredient(s) - Exposure Limits

petroleum asphalt

ACGIH TLV-TWA 0.5 mg/m3 (inhalable fraction, as benzene-soluble aerosol)

ACGIH TLV-TWA 10 mg/m3 (total dust)

ACGIH TLV-TWA 3 mg/m3 (respirable dust)

OSHA PEL-TWA 15 mg/m3 (total dust)

OSHA PEL-TWA 5 mg/m3 (respirable dust)

#### cellulose fiber

ACGIH TLV-TWA 10 mg/m3

stoddard solvent

ACGIH TLV-TWA 100 ppm

OSHA PEL-TWA 500 ppm

#### 9. Physical And Chemical Properties

#### **Appearance**

Black Liquid

#### Odor

Strong Petroleum Solvent Odor

Chemical Type: Mixture Physical State: Liquid Boiling Point: 310-400 °F Specific Gravity: 1.01 Vapor Pressure: 2@68°F Vapor Density: >1

pH Factor: not applicable Solubility: insoluble in water

Evaporation Rate: <1

# Henry

#### MATERIAL SAFETY DATA SHEET

Page 4 of 6

## DI150 - WET OR DRY SURFACE FIBERED PLASTIC ROOF CEMENT

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

Avoid contact with strong oxidizing agents and acids.

**Hazardous Decomposition Products** 

Toxic and irritating gases, vapors or fumes, carbon monoxide (CO), carbon dioxide (CO2).

#### 11. Toxicological Information

#### Chronic/Carcinogenicity

None of the ingredients present in this product, at concentrations equal to or greater than 0.1%, have been determined to be carcinogenic by IARC, NTP, OSHA, or ACGIH.

#### Miscellaneous Toxicological Information

Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.

#### Ingredient(s) - Toxicological Data

cellulose fiber

LD50 (oral, rat): >2000 mg/kg

LC50 (rat): >5800 mg/m3 (4-hour exposure)

stoddard solvent

oral-rat LD50: >5000 mg/kg dermal-rabbit LD50: >3000 mg/kg inhal-rat LC50: >5500 mg/m3 (880 ppm)

inhal-rat LC50: >1300 ppm

#### 12. Ecological Information

No specific information available.

#### 13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

#### 14. Transport Information

Ground or Water Domestic Voyage

Not restricted if shipped in containers<450L (119 gallons)

Restricted if shipped in containers >450L (119 gallons)

US NA1993, Combustible liquid, n.o.s., (Petroleum Distillates mixture), Combustible liquid, III

Canada UN1999, Tars liquid, 3, III

Unless departs>flash point:

Both UN3256, Elevated Temperature liquid, flammable, n.o.s., (Petroleum Distillates mixture), 3, III

IMDG Code 2.3.2.5 - exempted from marking, labeling & testing of packages

IATA UN1999, Tars liquid, 3, III

Page 5 of 6

# DI150 - WET OR DRY SURFACE FIBERED PLASTIC

#### DOT (Pictograms)





#### Regulatory Information

#### **U.S. Regulatory Information**

Asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive

#### Ingredient(s) - State Regulations

petroleum asphalt

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

attapulgite

California - Proposition 65

cellulose fiber

Pennsylvania - Workplace Hazard

stoddard solvent

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

#### Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: B3 - Combustible Liquid, D2A - Very Toxic

#### Ingredient(s) - Canadian Regulatory Information

stoddard solvent

WHMIS - Ingredient Disclosure List

#### European Union (EU) Regulatory Information

REACH Pre-registration Information:

Substance (CAS#)

Reference Number

Asphalt (8052-42-4)

05-2114366982-36-0000

Stoddard Solvent (64742-88-7)

05-2114367025-53-0000

Bentonite (1302-78-9)

05-2114501887-43-0000

Cellulose (9004-34-6)

05-2114366989-22-0000

Attapulgite (12174-11-7)

NA-Naturally Occurring Substance

Water (7732-18-5)

NA-Naturally Occurring Substance



Page 6 of 6

# DI150 - WET OR DRY SURFACE FIBERED PLASTIC ROOF CEMENT

WHMIS - Canada (Pictograms)





**NFPA** 



HMIS .	
HEALTH	1
	2
REACTIVITY	0
PERSONAL PROTECTION	

16. Other Information

**Revision/Preparer Information** 

This MSDS Supersedes A Previous MSDS Dated: 11/24/2008

#### Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

Printed Using MSDS Generator™ 2000

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be consulted
for specific requirements.

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072

#### IDENTITY (As Used on Label and List)

#### Bonide Wasp & Hornet Killer (Aerosol)

**ID** # **4392** Date: May 27, 2008

#### Section I

Bonide Products, Inc.	(800) 424-9300	
6301 Sutliff Rd.	(315) 736-8231	
Oriskany, NY 13424	, ,	

#### Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s)	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Tetramethrin (CAS# 7696-12-0)	N/E	N/E		0.1
Permethrin (CAS# 52645-53-1)	N/E	N/E		0.25
Piperonyl butoxide (CAS# 51-03-6)	N/E	N/E		0.5

#### Section III - Physical/Chemical Ingredients

APPEARANCE: Liquid

pH: NA

DENSITY: 6.55 lbs/gal PHYSICAL STATE: Liquid VISCOSITY: 20.3 cp @ 22°C

STABILITY: Stable SOLUBILITY (H<sub>2</sub>O): NA

ODOR: Odorless to faint deodorized kerosene odor. HAZARDOUS POLYMERIZATION: Will not occur,

#### Section IV - Fire and Explosion Data

#### FLAMMABLE PROPERTIES: FLASH POINT: 192°F 89°F TCC

FIRE AND EXPLOSION HAZARDS: Flammable. Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, or Water.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

#### Section V - Health Hazard Information

EMERGENCY OVERVIEW: Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. This product is toxic to fish and aquatic invertebrates. Flammable. Contents under pressure.

PRIMARY ROUTE (S) OF ENTRY: Skin contact.

EYES: Causes moderate eye irritation.

SKIN: Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

CHRONIC (CANCER INFORMATION): See Section 11 for carcinogenic/oncogenic effects of piperonyl butoxide and permethrin.

#### Section VI - First Aid Measures

EYES: Flush with plenty of water. Call a physician if irritation persists.

SKIN: Wash thoroughly with soap and water.

#### Section VII - Accidental Release Measures

Soak up with an absorbent material and dispose of in trash.

#### Section VIII - Handling and Storage

#### HANDLING PRECAUTIONS:

Avoid contact with eyes or clothing. Do not use in commercial food/feed handling establishments, restaurants, or other sites where food/feed in commercially prepared or processed. Not for use in USDA meat and poultry plants. STORAGE PRECAUTIONS:

Do not store near heat or open flame. Store in a cool, dry area away from children.

WORK/HYGIENIC PRACTICES:

Wash thoroughly with soap and water after handling.

Dielectric breakdown (non-conductive up to 47,300 volts.

#### Section IX - Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Use in a well-ventilated area.

EYE/FACE PROTECTION: Safety glasses SKIN PROTECTION: Chemical-resistant gloves.

#### Section X - Toxicological Information

ACUTE STUDIES: Acute toxicity data is bridged from a similar product; Tetraperm Wasp & Hornet Killer FEQ 24, EPA Reg. 432-776, which contains 0.15% Tetramethrin, 0.375% Permethrin, and 0.75% Piperonyl Butoxide.

EYE EFFECTS: Moderately irritating.

SKIN EFFECTS: IRRITATION: Slightly irritation.

ABSORPTION: LD50 > 18.92 /mgL (for DOT classification)

SENSITIZATION: Positive

ACUTE ORAL EFFECTS: LD50 > 5,000 mg/kg

ACUTE INHALATION EFFECTS: 4-hour LD50 > 4.73 mg/L

CHRONIC (CANCER INFORMATION): A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin technical over 85 weeks.

A statistically significant increase in the number of benign liver tumors appeared in mice fed piperonyl butoxide technical at doses which far exceed any anticipated daily human intake. Independent and industry toxicological experts who have reviewed the data agree that the findings of the study do not indicate a health risk to human beings.

CARCINOGENICITY:

NTP: No IARC: No OSHA: No

#### Section XI - Ecological Information

#### OTHER ENVIRONMENTAL INFORMATION:

This product is toxic to fish and aquatic invertebrates. No not apply directly to water.

#### Section XII - Disposal Consideration

Replace cap. Wrap container in several layers of newspaper and discard in trash. Do not incinerate or puncture. Can be disposed of with other recyclables where local law permits.

#### **Section XIII - Transport Information**

PROPER SHIPPING NAME: Aerosols, Nonflammable

HAZARD CLASS: 2.2

**DOT IDENTIFICATION NUMBER UN1950** 

DOT SHIPPING LABEL: Nonflammable gas

#### Section XIV - Regulatory Information

#### SARA TITLE III NOTIFICATIONS AND INFORMATION

#### SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

CAS NUMBER INGREDIENT NAME PERCENT BY WEIGHT 7696-12-0 Tetramethrin =0.152645-53-1 Permethrin =0.2551-03-6 Piperonyl butoxide =0.5

This information must be included on all MSDS's that are copied and distributed for this material.

REGULATED INGREDIENTS: INGREDIENT: Tetramethrin CAS NUMBER: 7696-12-0 PERCENT BY WEIGHT: = 0.1

REGULATIONS: SARA Section 313 Toxic Chemical

INGREDIENT: Permethrin CAS NUMBER: 52645-53-1 PERCENT BY WEIGHT: = 0.25

REGULATIONS: Massachusetts Hazardous Substance

New Jersey Workplace Hazardous Substance

SARA Section 313 Toxic Chemical

INGREDIENT: Piperonyl butoxide CAS NUMBER: 51-03-6

PERCENT BY WEIGHT: = 0.5

REGULATIONS: SARA Section 313 Toxic Chemical

INGREDIENT: Carbon dioxide CAS NUMBER: 124-38-9 PERCENT BY WEIGHT: > 2

REGULATIONS: Illinois Toxic Substance

Massachusetts Hazardous Substance New Jersey Workplace Hazardous

Pennsylvania Workplace Hazardous Substance

#### Section XV - Other Information

HMIS HAZARD RATING:

NFPA HAZARD RATING: HEALTH: 1 Slight HEALTH: 1 Slight FIRE: 2 Moderate FIRE: 2 Moderate PROTECTION: B PROTECTION: B

MSDS IDENTIFICATION CODE/NUMBER: 4392

#### KEEP OUT OF REACH OF CHILDREN

#### ABBREVIATION KEY

N/A: NOT AVAILABLE OR APPLICABLE N/E: NOT ESTABLISHED TLV: THRESHOLD LIMIT VALUE STEL: SHORT TERM EXPOSURE LIMIT

TWA: TIME WEIGHTED AVG./ 8 HOUR WORKDAY D.O.T.: DEPARTMENT OF TRANSPORTATION

ND: Not Determined

#### DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

#### SAFETY DATA SHEET

Revision Date 18-Jan-2016

Version 4

#### 1. IDENTIFICATION

Product identifier

**Product Name** 

ULTRA COPPER GASKET MAKER 3 OZ.

Other means of identification

**Product Code** 

81878 None

Synonyms

Recommended use of the chemical and restrictions on use Recommended Use

Sealant

Uses advised against

No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Distributor

**ITW Permatex** 6875 Parkland Blvd. ITW Permatex Canada 35 Brownridge Road, Unit 1

Solon, OH 44139 USA

Halton Hills, ON Canada L7G 0C6

Telephone: (800) 924-6994

**Company Phone Number** 

1-87-Permatex

(877) 376-2839

24 Hour Emergency Phone Number

Chem-Tel: 800-255-3924 International Emergency: 00+1+813-248-0585

Contract Number: MIS0003453

E-mail address

mail@permatex.com

#### 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910,1200)

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Carcinogenicity	Category 2

#### Label elements

Emergency Overview

#### Warning

Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer



Appearance Copper

Physical state Paste

Odor Mild

#### Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

pecific treatment (see supplemental first aid instructions on this label)

IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing eye irritation persists: Get medical advice/attention

ON SKIN: Wash with plenty of soap and water

skin irritation or rash occurs: Get medical advice/attention

/ash contaminated clothing before reuse

#### Precautionary Statements - Storage

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

- Not applicable

Unknown acute toxicity

16.3812 % of the mixture consists of ingredient(s) of unknown toxicity

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### substance(s)

CAS No	Weight-%	Trade Secret
70131-67-8	30 - 60	*
63148-62-9	10 - 30	*
2224-33-1	3 - 7	*
1309-37-1	1 - 5	*
96-29-7	1-5	*
	70131-67-8 63148-62-9 2224-33-1 1309-37-1	70131-67-8 30 - 60 63148-62-9 10 - 30 2224-33-1 3 - 7 1309-37-1 1 - 5

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### **Description of first aid measures**

General advice Get medical advice/attention if you feel unwell.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN:. Wash skin with soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, call a physician.

If SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms See section 2 for more information.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Assessment Control of the

Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

None in particular.

**Explosion data** 

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin.

Use personal protective equipment as required.

Environmental precautions

**Environmental precautions**Do not flush into surface water or sanitary sewer system. Prevent further leakage or

spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Ensure adequate ventilation. Flood with water to complete polymerization and scrape off

floor. Sweep up and shovel into suitable containers for disposal. Slippery, can cause falls if

walked on.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.

Incompatible materials

Strong oxidizing agents, Water, Acids

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
IRON OXIDE	TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ fume	IDLH: 2500 mg/m3 Fe dust and
1309-37-1		TWA: 15 mg/m³ total dust	fume
		TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ Fe dust and fume
		(vacated) TWA: 10 mg/m³ fume	_
		and total dust fron oxide	
		(vacated) TWA: 5 mg/m³ respirable	
		fraction regulated under Rouge	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir. 1992)

(11th Cir., 1992).

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Skin and body protection

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

Respiratory protection

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as

appropriate.

**General Hygiene Considerations** 

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state

Paste

Appearance Odor Copper Mild

Odor threshold

No information available

Remarks • Method

Polymerization

Air = 1

Tag Closed Cup

**Property** 

рΗ

Melting point / freezing point Boiling point / boiling range

Flash point Evaporation rate

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: Lower flammability limit: Vapor pressure

Vapor density Relative density Water solubility

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
Oxidizing properties

Values 7-8

No information available

Not Applicable > 93 °C / > 200 °F No information available

No information available

No information available No information available <5 mm Hg @ 80°F

3.0 1.05

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%)

Density
Bulk density

No information available No information available

No information available

<3%

No information available No information available

mornation available

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Excessive heat.

#### Incompatible materials

Strong oxidizing agents, Water, Acids

#### **Hazardous Decomposition Products**

Carbon oxides

Nitrogen oxides (NOx)

Formaldehyde

May release 2-butanone oxime (ethyl methyl ketoxime) at elevated temperature

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation

May cause irritation of respiratory tract.

Eye contact

Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact

May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.

Ingestion

Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED 70131-67-8	_	> 16 mL/kg(Rabbit)	> 8750 mg/m³(Rat)7 h
POLYDIMETHYLSILOXANE 63148-62-9	> 17 g/kg (Rat)	> 2 g/kg (Rabbit)	-
IRON OXIDE 1309-37-1	> 10000 mg/kg (Rat)	-	-
2-BUTANONE OXIME 96-29-7	= 930 mg/kg (Rat)	= 0.2 mg/kg(Rabbit)	= 20 mg/L (Rat) 4 h

#### Information on toxicological effects

**Symptoms** 

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen. Chemical Name **ACGIH** IARC NTP OSHA IRON OXIDE Group 3 1309-37-1

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

**Target Organ Effects** 

Eyes, Respiratory system, Skin.

#### The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)

33322 mg/kg

ATEmix (dermal)

5426 mg/kg

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

98,9602 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

	Chemical Name	Algae/aquatic plants	Fish	Crustacea
	2-BUTANONE OXIME	83: 72 h Desmodesmus subspicatus	777 - 914: 96 h Pimephales	750: 48 h Daphnia magna mg/L
ŀ	96-29-7	mg/L EC50	promelas mg/L LC50 flow-through	EC50
ŀ			760: 96 h Poecilia reticulata mg/L	
			LC50 static 320 - 1000: 96 h	
L			Leuciscus idus mg/L LC50 static	

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Mobility**

No information available.

Chemical Name	Partition coefficient
2-BUTANONE OXIME	0.65
96-29-7	

Other adverse effects

No information available

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and Disposal of wastes

regulations.

Contaminated packaging

Do not reuse container.

US EPA Waste Number

Not applicable

#### 14, TRANSPORT INFORMATION

DOT

Proper shipping name:

Not regulated

IATA

Proper shipping name:

Not regulated

IMDG

Proper shipping name:

Not regulated

#### 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Not Listed. Not Listed. **ENCS IECSC** Complies **KECL** Not Listed. Complies **PICCS AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard Yes Chronic Health Hazard No Fire hazard No Sudden release of pressure hazard No Reactive Hazard No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
IRON OXIDE 1309-37-1	X	X	X
2-Ethylhexanoic acid 149-57-5	X	<del>-</del>	-

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### WHMIS Hazard Class

D2B - Toxic materials

#### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 1 Instability 0 - HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection B

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

**Revision Date** 

18-Jan-2016

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

### SAFETY DATA SHEET



#### 1. Identification

Product identifier Hercules Real Tuff

Other means of identification

SDS number 7324E

Synonyms Part Numbers: 15605, 15615, 15620, 15625, 15630, 15632, 15635, 15640

Recommended use Multipurpose thread sealant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name HCC Holdings, Inc. an Oatey Affiliate

Address 4700 West 160th Street Cleveland, OH 44135

 Telephone
 216-267-7100

 E-mail
 info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015 Contact person MSDS Coordinator

#### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

#### Supplemental information

Not applicable.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	% 15-40	
Petroleum distillates, solvent refined heavy parrafinic	64741-88-4		
Talc	Mixture	15-40	
Polyfluoroethylene	9002-84-0	10-30	
Titanium dioxide	13463-67-7	5-10	
Castor Oil, Oxidized	68187-84-8	1-5	
SOYBEAN LECITHIN	8002-43-5	1-5	

Hercules Real Tuff SDS US

Silica, amorphous, fumed 112945-52-5 1-5

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

During fire, gases hazardous to health may be formed.

protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Specific hazards arising from

Do not use water jet as an extinguisher, as this will spread the fire.

the chemical

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

itina

ant/instructions

methods fire hazards Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### idental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage. including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Petroleum distillates, solvent refined heavy parrafinic (CAS 64741-88-4)	PEL.	5 mg/m3	Mist.
		2000 mg/m3 500 ppm	
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.

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<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	
Silica, amorphous, fumed (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Petroleum distillates,	TWA	5 mg/m3	Inhalable fraction.
solvent refined heavy			
parrafinic (CAS 64741-88-4)			
Titanium dioxide (CAS	TWA	10 mg/m3	
13463-67-7)			

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form	
Petroleum distillates, solvent refined heavy parrafinic (CAS 64741-88-4)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
Silica, amorphous, fumed (CAS 112945-52-5)	TWA	6 mg/m3		

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation. or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear protective gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance	Paste.
Physical state	Solid.
Form	Solid.
Color	White.
Odor	Odorless
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Hercules Real Tuff 921101 Version #: 02 Revision date: 10-December-2014 Issue date: 30-July-2014 3/7 Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density < 1 Relative density 1.56

Solubility(ies)

Solubility (water)

slightly soluble

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available. Not available.

Decomposition temperature Viscosity

20000 - 50000 cP

Other information

VOC (Weight %) 6 g/l

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica, amorphous, fumed (CAS 112945-52-5)

3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

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#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not available.

Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment,

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Hercules Real Tuff

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#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### US. Massachusetts RTK - Substance List

Petroleum distillates, solvent refined heavy parrafinic (CAS 64741-88-4)

Silica, amorphous, fumed (CAS 112945-52-5)

Titanium dioxide (CAS 13463-67-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Titanium dioxide (CAS 13463-67-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Silica, amorphous, fumed (CAS 112945-52-5)

Titanium dioxide (CAS 13463-67-7)

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Titanium dioxide (CAS 13463-67-7)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vee" indicates this product of	montion with the inventor and inventor administrated by the	

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

02

Issue date 30-July-2014

Revision date 10-December-2014

HMIS® ratings Health: 0

Version #

Flammability: 0 Physical hazard: 0

 Hercules Real Tuff
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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

 Hercules Real Tuff
 SDS US

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#### SAFETY DATA SHEET



#### 1. Identification

Product identifier

Propane

Other means of identification

SDS number

WC002

Product code

UN1075

Recommended use

Portable fuel.

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier

Worthington Cylinder Corporation 300 E. Breed St., Chilton, WI 5301

**United States** 

Contact person

Address

Ann Stiefvater

E-mail address

Ann.Stiefvater@worthingtonindustries.com

Telephone number

1-920-849-1740

**Emergency telephone** 

number

1-703-527-3887 International / CHEMTREC 1-800-424-9300 Domestic

#### 2. Hazard(s) identification

Physical hazards

Flammable gases

Category 1

Gases under pressure

Liquefied gas

Health hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable gas. Contains gas under pressure; may explode if heated.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition

sources if safe to do so.

Storage

Protect from sunlight. Store in a well-ventilated place.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

May displace oxygen and cause rapid suffocation.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%	
Propane	74-98-6	87.5-100	
Ethane	74-84-0	0-7	
Propylene	115-07-1	0-5	
Butane	106-97-8	0-2.5	

Propane

SDS US

Version #: 03 Revision date: 25-March-2015 Issue date: 05-May-2014

Chemical name CAS number Ethyl Mercaptan < 0.005 75-08-1

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. If frostbite occurs, immerse involved area in warm water (between 100 F/38 C and 110 F/43 C, not exceeding 112 F/44 C). Keep immersed for 20 to 40 minutes. Seek medical assistance.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Ingestion is not a typical route of exposure for gases or liquefied gases.

Most important symptoms/effects, acute and

delayed

Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.

Indication of immediate medical attention and special treatment needed

Exposure may aggravate pre-existing respiratory disorders. Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Dry chemical, CO2, water spray, fog, or foam.

None known.

nazards arising from ical

Selection of respiratory protection for firefighting; follow the general fire precautions indicated in the workplace.

rotective equipment autions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move container from fire area if it can be done without risk.

ing nt/instructions

Do not extinguish fires unless gas flow can be stopped safely; explosive re-ignition may occur. Promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Stop flow of material. Use water to keep fire exposed containers cool and to protect personnel effecting shutoff. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

#### General fire hazards

Extremely flammable gas.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate the area promptly. No action shall be taken involving any personal risk or without suitable training. Keep unnecessary personnel away.

Ensure adequate ventilation, in case of inadequate ventilation, use respiratory protection. Wear appropriate personal protective equipment (See Section 8).

Methods and materials for containment and cleaning up **Environmental precautions** 

Ventilate well, stop flow of gas or liquid if possible. Immediately contact emergency personnel.

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sanitary sewers, waterways and/or groundwater.

#### 7. Handling and storage

Precautions for safe handling

Eliminate all sources of ignition. Wear appropriate personal protective equipment (See Section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored. and processed. Do not breathe gas. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation.

Propane 919503 Version #: 03 Revision date: 25-March-2015 Issue date: 05-May-2014 SDS US

Conditions for safe storage. including any incompatibilities Store in accordance with local, regional, national, and international regulations. Secure cylinders in an upright position at all times, close all valves when not in use. Store in a cool, dry, well-ventilated place. Keep container tightly closed and sealed until ready for use. Protect cylinders from damage.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
Additives	Type	Value	
Ethyl Mercaptan (CAS 75-08-1)	Ceiling	25 mg/m3	
		10 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
Butane (CAS 106-97-8)	STEL	1000 ppm	
Propylene (CAS 115-07-1)	TWA	500 ppm	
Additives	Type	Value	
Ethyl Mercaptan (CAS 75-08-1)	TWA	0.5 ppm	,
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
Additives	Type	Value	

0.5 ppm

1.3 mg/m3

Biological limit values

Ethyl Mercaptan (CAS

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

75-08-1)

controls

Provide adequate ventilation and minimize the risk of inhalation of gas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below

recommended exposure limits.

Ceiling

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved safety glasses or goggles.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Other

Wear protective clothing appropriate for the risk of exposure.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards

Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Wear

appropriate thermal protective clothing, when necessary.

General hygiene considerations

Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety

practices.

#### 9. Physical and chemical properties

**Appearance** Colorless gas.

Physical state Gas.

Form Compressed liquefied gas.

Colorless. Color Rotten egg. Odor

Propane SDS US Odor threshold

Not available.

Not applicable.

Melting point/freezing point

-306.4 °F (-188 °C)

Initial boiling point and boiling

-43.6 °F (-42 °C) 14.7 psia

range

Flash point

-155.2 °F (-104.0 °C)

**Evaporation rate** 

Not applicable.

Flammability (solid, gas)

Extremely flammable gas.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

2.15 %

Explosive limit - upper (%)

9.6 %

Vapor pressure Vapor density

127 psig (21°C / 70°F)

Not available.

Relative density

0.504 (liquid) 1.5 (vapor) (air=1) @ 15°C / 60°F

Solubility(ies)

Solubility (water)

Slightly soluble in water.

Partition coefficient

1.77

(n-octanol/water)

Auto-ignition temperature

809.6 °F (432 °C)

Decomposition temperature

Not available.

Viscosity

Not applicable.

Other information

Molecular weight

45 g/mol

Percent volatile

100 %

#### 10. Stability and reactivity

Reactivity

Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates

causing fire and explosion hazard.

Chemical stability

Stable under normal temperature conditions and recommended use.

Possibility of hazardous

reactions

Polymerization will not occur.

Heat, flames and sparks.

Conditions to avoid Incompatible materials

Strong oxidizing agents. Strong acids. Halogens.

Hazardous decomposition

products

Carbon oxides. Hydrocarbons.

#### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion

Not likely, due to the form of the product.

Inhalation

High concentrations: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation

may result in unconsciousness.

Skin contact Eye contact

Contact with liquefied gas may cause frostbite. Contact with liquefied gas may cause frostbite.

Symptoms related to the physical, chemical and toxicological characteristics Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.

#### Information on toxicological effects

Acute toxicity

High concentration: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.

Propane

SDS US

919503 Version #: 03

Revision date: 25-March-2015 Issue date: 05-May-2014

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Components	Species	Test Results	
Butane (CAS 106-97-8)			
Acute			
Inhalation			
LC50	Mouse	680 mg/l, 2 Hours	
	Rat	658 mg/l, 4 Hours	
Propane (CAS 74-98-6)			
Acute			
Inhalation	Det	. 4440 . # 4515 . /	
LC50	Rat	> 1442 mg/l, 15 Minutes	
Propylene (CAS 115-07-1)			
Acute Inhalation			
LC50	Mouse	680 mg/l, 2 Hours	
2000	Rat	_	
Additives		658 mg/l, 4 Hours <b>Test Results</b>	
Ethyl Mercaptan (CAS 75-08-1)	Species	rest results	
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg	
Inhalation			
LC50	Mouse	4420 mg/l, 4 Hours	
Oral			
LD50	Rat	682 mg/kg	
Skin corrosion/irritation	Contact with liquefied gas might	cause frostbites, in some cases with tissue damage.	
Serious eye damage/eye irritation		may cause eye damage from frostbite.	
Respiratory or skin sensitizatior	1		
Respiratory sensitization	Not classified.		
Skin sensitization	Not classified.		
Germ cell mutagenicity	Not classified.		
Carcinogenicity	Not classified.		
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Propylene (CAS 115-07-1	-	Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Not classified.	• .	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not classified.		
12. Ecological information			
Ecotoxicity	Not expected to be harmful to a	quatic organisms.	
Persistence and degradability	The product is readily biodegrad	able.	
Bioaccumulative potential	The product is not expected to be	The product is not expected to bioaccumulate.	
Partition coefficient n-octan Propane (CAS Mixture) Butane (CAS 106-97-8)	:	1.77 2.89 2.36	
Propane (CAS 74-98-6)			
Propane (CAS 74-98-6) Propylene (CAS 115-07-1) Mobility in soil		1.77	

SDS US

Propane 919503 Version #: 03 Revision date: 25-March-2015 Issue date: 05-May-2014 Other adverse effects

None known.

#### 13. Disposal considerations

Disposal instructions

Use the container until empty. Do not dispose of any non-empty container. Empty containers have residual vapor that is flammable and explosive. Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture or incinerate even when empty. Dispose in accordance with all applicable regulations.

Hazardous waste code

D001: Waste Flammable material with a flash point <140 °F

Waste from residues / unused

products

Dispose in accordance with all applicable regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

**UN number** 

UN1075

UN proper shipping name Petroleum Gases, liquefied

Transport hazard class(es)

Class

2.1

Subsidiary risk Packing group

Not applicable.

**Environmental hazards** 

Marine pollutant

No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

19, T50 Special provisions 306 Packaging exceptions Packaging non bulk 304

Packaging bulk

314, 315

IATA

**UN number** 

UN1075

UN proper shipping name

Petroleum Gases, liquefied

Transport hazard class(es)

Class

2.1

Subsidiary risk Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

No

**ERG Code** 

10L Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** 

UN1075

UN proper shipping name

Petroleum Gases, liquefied

Transport hazard class(es)

Class

2.1

Subsidiary risk Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

Marine pollutant

No

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and This product is a compressed or liquefied gas and when transported in bulk is covered under IGC

code.

the IBC Code

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Propane

SDS US

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#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

 Butane (CAS 106-97-8)
 LISTED

 Ethyl Mercaptan (CAS 75-08-1)
 LISTED

 Propane (CAS 74-98-6)
 LISTED

 Propylene (CAS 115-07-1)
 LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Propylene	115-07-1	0-5	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)

Ethyl Mercaptan (CAS 75-08-1)

Propane (CAS 74-98-6)

Propylene (CAS 115-07-1)

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR

68.130)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8)

Ethyl Mercaptan (CAS 75-08-1)

Propane (CAS 74-98-6)

Propylene (CAS 115-07-1)

#### US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)

Ethyl Mercaptan (CAS 75-08-1)

Propane (CAS 74-98-6)

Propylene (CAS 115-07-1)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8)

Ethyl Mercaptan (CAS 75-08-1)

Propane (CAS 74-98-6)

Propylene (CAS 115-07-1)

#### US. Rhode Island RTK

Butane (CAS 106-97-8)

Ethyl Mercaptan (CAS 75-08-1)

Propane (CAS 74-98-6)

Propylene (CAS 115-07-1)

#### US. California Proposition 65

Propane

SDS US

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#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### International Inventories

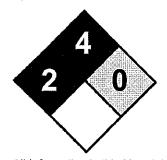
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

#### 16. Other information, including date of preparation or last revision

Issue date 05-May-2014 Revision date 25-March-2015

Version #

**NFPA Ratings** 



#### Disclaimer

All information in this Material Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations.

Propane

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



#### Section 1: Product and Company Identification

**Product:** MAP-*Pro*<sup>™</sup> Premium Hand Torch Fuel

Description: Propylene

Date Issued: February 26, 2008

Last Revised: Original

Company: Worthington Cylinder Corporation

Address: 200 Old Wilson Bridge Road

Columbus, Ohio 43085

Information: 614-438-7960

**Emergency:** CHEMTREC – (800) 424-9300

#### Section 2: Hazardous Ingredients and Exposure Limits

Ingredient	CAS Number	Weight %	OSHA PEL (ppm)	ACGIH TLV (ppm)
Propylene	115-07-1	99.5 — 100	Not Established	500
Propane	74-98-6	0 – 0.5	1000	1000

#### Section 3: Physical and Chemical Properties

Boiling Point: -54 °F Vapor Pressure: 109.73 psig @ 70 °F

Melting Point: -301 °F Vapor Density (air=1): 1.5 @ 32 °F

Specific Gravity: 0.52 (liquid) Solubility in Water: Slight

Molecular Weight: 42 Percent Volatile by Weight: 100

Appearance: Colorless gas Odor: Hydrocarbon

#### Section 4: Fire and Explosion Data

Flash Point: -162 °F Auto Ignition: 927 °F

**Lower Explosion Limit:** 2.0% by volume in air **Upper Explosion Limit:** 11.0% by volume in air

**General Fire Hazards:** Liquid releases vapors that readily form a flammable mixture with air. Dangerous fire and explosion hazard when exposed to heat, sparks or flame. Vapors are heavier than air and may travel long distances to a point of ignition. Container may explode in heat or flame.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide and various non-combusted hydrocarbons.

Extinguishing Media: Dry chemical, foam, carbon dioxide, Halon or water.

**Unusual Fire Hazards:** Use extreme caution when fighting liquefied petroleum gas fires. Heated containers may rupture violently and suddenly without warning due to vessel overpressure (BLEVE-boiling liquid expanding vapor explosions). If safe to do so stop the flow of gas and allow the flame to burn out. Extinguishing the flame before shutting off the supply can cause formation of explosive mixtures. In some cases it may be preferred to allow the flame to continue to burn. Use water to cool equipment, surfaces and containers exposed to fire and excessive heat.

#### Section 5: Reactivity Data

Chemical Stability: Stable

Revision Number: Original Page: 1 of 4 MSDS Code: WC001



Hazardous Decomposition Products: Carbon oxides and various hydrocarbons formed when burned.

Incompatibility: Strong oxidizers such as nitrates, perchlorates, chlorine and fluorine.

**Hazardous Polymerization:** Does not polymerize except under special conditions (extreme temperature, pressure, oxidizers).

Conditions to Avoid: Sources of heat, sparks or flame.

#### Section 6: Hazards Identification

**Overview:** This product contains propylene a colorless liquid that rapidly turns into a gas at standard atmospheric temperatures and pressure. Propylene has a slight hydrocarbon odor. In commerce propylene is packaged as a liquified gas under pressure. Propylene is extremely flammable and explosive. At high concentrations it acts as a simple asphixiant by diluting and displacing oxygen, particularly in confined spaces. Direct contact with liquefied product may cause freeze burns and frostbite. Use this product only in well ventilated areas and, where appropriate, proper respiratory protection and personal protective equipment should be worn.

Primary Entry Routes: Inhalation
Target Organs: Respiratory system

#### Potential Health Effects:

- Inhalation: Product is an anesthetic at high concentrations. Inhalation may cause central nervous system
  depression producing dizziness, drowsiness, headache, and similar narcotic symptoms. Extremely high
  concentrations can cause asphyxiation and death by displacing oxygen from the breathing atmosphere.
- Eyes: Vapor is generally non-irritating to the eyes. Contact with liquefied gas or rapidly expanding gases may
  cause freeze burns and frostbite.
- Skin: Vapor is generally non-irritating to the skin. Contact with liquefied gas or rapidly expanding gases may
  e freeze burns and frostbite.

stion: Ingestion is not likely.

Conditions Aggravated by Exposure: Chronic diseases or disorders of the respiratory system.

ogical Information: Propylene is an anesthetic and is mildly irritating to the mucous membranes. At high ations propylene acts as a simple asphixiant without significant potential for systemic toxicity. High concentrations can cause death due to oxygen depletion. Toxicity data can be found in the Registry of Toxic Effects of Chemical Substances available on-line from the National Institute for Occupational Safety and Health (NIOSH).

**Carcinogenic Effects:** Propylene is not identified as being carcinogenic by the International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP), ACGIH or OSHA.

#### Section 7: First Aid Measures

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes while occasionally lifting the eyelids. Seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation or redness develops. In case of frostbite, place affected area in warm water or wrap in blankets if warm water is not available. DO NOT USE HOT WATER. Seek immediate medical attention.

**Inhalation:** Remove to fresh air. Administer oxygen or artificial respiration if necessary. Seek immediate medical attention.

**Ingestion:** Risk of ingestion is extremely low. Seek immediate medical attention in cases of ingestion or oral exposure.

Revision Number: Original Page: 2 of 4 MSDS Code: WC001



#### **Section 8: Personal Protective Equipment**

**Engineering Controls:** Good industrial hygiene practice requires that engineering controls be used where feasible to reduce workplace concentrations of hazardous materials.

**Ventilation:** Use adequate ventilation to keep gas and vapor concentrations of this product below the occupational exposure and flammability limits, particularly in confined spaces. Use mechanical ventilation that is explosion proof.

Respiratory Protection: Maintain oxygen levels above 19.5% in the workplace. Respirators must be worn if ambient concentrations of contaminants exceed prescribed exposure limits. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134). Select respirator based on its suitability to provide adequate worker protection for given work conditions, level of airborne contamination, and presence of sufficient oxygen. When required, only NIOSH approved respirators should be used.

**Protective Clothing:** Protective clothing should be worn to prevent skin contact. Protective gloves should be worn as required for welding or burning. Use insulated gloves where there is the possibility of liquid contact.

**Eye Protection:** Use safety glasses or goggles as required for welding or burning. Use splash-proof goggles or faceshield where there is the possibility of liquid contact.

#### Section 9: Handling and Storage

**Handling Precautions:** Keep away from flame, sparks and excessive temperatures. Use only in well-ventilated areas.

**Storage Requirements:** Store in a cool, dry, well-ventilated area away from sources of ignition, strong oxidizers or other incompatible materials. Post "No Smoking or Open Flame" signs in the storage and use areas. Protect cylinders against physical damage. Do not cut, drill, grind or weld on empty cylinders since they may contain explosive residues. Do not attempt to refill cylinders.

**Spill Response Procedures:** Evacuate area of all unnecessary personnel. Remove or shut off all sources of ignition. Ventilate the area thoroughly.

Disposal: Waste disposal must be in accordance with appropriate Federal, State and local regulations.

DOT Requirements: Product is classified as a Hazardous Substance under 49 CFR 172.101.

Shipping Name: Propylene

Hazard Class: 2.1 (Flammable Gas)

ID Number: UN 1077

Packing Group: Not Applicable Marking: Propylene, UN 1077

Label: Flammable Gas

Placard: Flammable Gas / UN1077 Hazardous Substance/RQ: Not Applicable

Tiazardous Substance/No. Not Applicable

Shipping Description: Propylene, 2.1 (Flammable Gas), UN 1077

Packaging References: 49 CFR 173.304, 173.306, 173.314 and 173.315

#### Section 10: Regulatory Information

#### **US Federal Regulations:**

- OSHA Hazardous Communication (29 CFR Part 1910.1200): This product is hazardous as defined in OSHA's Hazard Communication standard.
- OSHA Process Safety Management (29 CFR Part 1910.119): This product may be subject to OSHA's Process Safety Management of Highly Hazardous Chemicals standard.
- CERCLA Reportable Quantities (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4.
- Extremely Hazardous Substances (40 CFR Part 355): This product is not regulated under 40 CFR Part 355.

Revision Number: Original Page: 3 of 4 MSDS Code: WC001



### MATERIAL SAFETY DATA SHEET

- SARA 311/312 Hazard Class (40 CFR Part 370): The following hazard categories apply to this product:
  - Acute Health Hazard
  - Fire Hazard
  - Sudden Release of Pressure
- SARA 313 (40 CFR Part 372): Propylene is subject to the Toxic Release Reporting requirements of 40 CFR Part 372.
- TSCA Inventory Status: Propylene is listed on the TSCA Inventory.
- Chemical Accident Prevention Provisions (40 CFR Part 68): Propylene is subject to the reporting requirements of 40 CFR Part 68.

#### State Regulations:

- California Proposition 65: Propylene is not on the California Proposition 65 lists.
- The following States are known to have specific regulations applicable to ingredients in this product:
  - Massachusetts
  - Minnesota
  - New Jersey
  - Pennsylvania
  - Rhode Island

#### Other Regulations:

Canada DSL/NDSL Inventory: Propylene is listed on the Domestic Substances List.

#### Section 11: Other Information

#### **Hazard Ratings:**

NFPA:

H-1, F-4, R-1

HMIS®:

H-1, F-4, PH-1

WHIMS:

A, B1

The HMIS ratings displayed on this MSDS are from the HMIS Third Edition. There have been significant changes made to the system. "PH" stands for "Physical Hazard" as defined in the OSHA Hazardous Communication Standard and replaces the former code "R" for "Reactivity."

**Disclaimer:** All information in this Material Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations.

## MATERIAL SAFETY DATA SHEET

## **Radiator Specialty Company**

1900 WILKINSON BLVD. CHARLOTTE, NC 28208 (704) 377-6555

POISON INFORMATION & EMERGENCY: 303-623-5716

#### MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

#### US DEPARTMENT OF LABOR

Occupational Safety and Health Administration. (Non-Mandatory Form) Form Approved OMB No. 1218-0072

#### SECTION I GENERAL INFORMATION

PRODUCT NAME PLUMBERS HEAT PRUF GREASE
PART NUMBER GR-1, -1V, -1X

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

#### SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT%	C.A.S. NO.	TLV (ACGIH	IX)
Heavy Naphthenic Distillate	86	64742-52-5/64742-53-6	5 mg/m³	(Mist)
Fatty Acid	14	64755-01-7		
Comments:				

Components not identified are non-hazardous according to 29 CFR 1910.1200

#### SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H<sub>2</sub>O=1) Approx 1.0 рΗ 6-7 Solubility in Water Insoluble Solubility in Solvent Petroleum Flash Point (Method) - Fº 380°F (COC) % Volatiles By Wt. N/A Melting Point - F N/A Boiling Point - F<sup>0</sup> <500 F Vapor Pressure (mmHg) Vapor Density (Air=1) N/A N/A Evaporation Rate (Butyl Acetate=1) N/A Appearance and Odor Brown grease with petroleum-like odor.

#### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Water Fog	X	Foam	Х	CO <sub>2</sub>	X	Dry Chemical	X
SPECIAL FIRE	IGHTING	PROCEDURES.	Wear self	f-contained.	positive pre	essure breathing app	aratus and

#### **SECTION V REACTIVITY DATA**

Stable X	Unstable	Corrosive NO	Hazardous Polymerization? Yes	No	X
Incompatibilitie	s Strong oxidizers				
Hazardous Dec	omposition or Byproducts	Fire: normal pr	oducts of combustion: carbon monoxid	e, carbo	n dioxide and

#### SECTION VI HEALTH HAZARD INFORMATION

Recommende	d TLV of Product	5mg/m³ (Mist) Heavy Naphthenic Distillate
EYE CONTACT	Mild irritant	SKIN CONTACT Mild irritant on prolonged exposure.
INHALATION	Not likely (grease)	INGESTION Not likely (grease) HARMFUL IF SWALLOWED!

#### SECTION VII EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT	Flush with water for at least 15 minutes while lifting eyelids. Consult a physician immediately	
SKIN CONTACT	Wash with soap and water. If injected under the skin ( high pressure), treat as medical emergency.	
INHALATION	Move to f resin air	
INGESTION	DO NOT INDUCE VOMITING! Consult a physician immediately. DO NOT ADMINISTER ADRENALIN OR EPINEPHRINE!	

#### SECTION VIII SPECIAL PROTECTION INFORMATION

<del></del>	CONSUMER	BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION	N/A	None required
VENTILATION	Use with adequate ventilation.	Local
PROTECTION	N/A	Splash gloves or face shield
TECTIVE THING	N/A	Chemical resistant gloves and apron

#### CTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

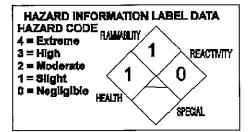
SPILL OR LEAK PROCEDURE

Observing health hazards described above, remove ignition source. Soak up with absorbent clay or wipe up with rags and transfer to waste drum.

WASTE DISPOSAL METHOD Dispose of in accordance with all applicable government laws and regulations.

STORAGE AND HANDLING PRECAUTIONS Store in cool place away from, ignition source, oxidizing agents

OTHER PRECAUTIONS Keep containers closed when not in use. KEEP AWAY FROM CHILDREN AND ANIMALS!



Supersedes FEBRUARY 1999

OSHA Revised JULY 2001 Title R. GEER - CHEMIST

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification.

# **Oatey**®

#### SAFETY DATA SHEET

#### 1. Identification

Product identifier Oatey No. 11 Liquid Flux

Other means of identification

SDS number 1612E

Synonyms Part Numbers: 30106
Recommended use Joining Copper Pipes.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100

E-mail info@oatey.com
Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage.

Precautionary statement

Prevention Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection. Do not breathe dusts or mists.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Not applicable.

#### 3. Composition/information on ingredients

**Mixtures** 

 Chemical name
 CAS number
 %

 Water
 7732-18-5
 40-70

Oatey No. 11 Liquid Flux
922566 Version #: 03 Revision date: 19-February-2015 Issue date: 16-October-2014

Zinc chloride	7646-85-7	15-40	
Hydrochloric acid	7647-01-0	10-30	
Ammonium chloride	12125-02-9	3-7	

#### 4. First-aid measures

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation

Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Skin contact

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

blindness could result.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

Ingestion

symptoms/effects, acute and delaved

Indication of immediate

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

General information

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Water spray, Water fog. Foam. Dry chemical powder, Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

ods and materials for ainment and cleaning up

This product is miscible in water. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground. ronmental precautions

#### 7. Handling and storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities

Not available. Not available.

Oatey No. 11 Liquid Flux SDS US

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910,1000)

Components	Туре	Value	Form
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Zinc chloride (CAS 7646-85-7)	PEL	1 mg/m3	Fume.
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	Form
Ammonium chloride (CAS 12125-02-9)	STEL	20 mg/m3	Fume.
·	TWA	10 mg/m3	Fume.
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m3	Fume.
,	TWA	1 mg/m3	Fume.
US. NIOSH: Pocket Guide t	to Chemical Hazards		
Components	Туре	<b>V</b> alue	Form
Ammonium chloride (CAS 12125-02-9)	STEL	20 mg/m3	Fume.
	TWA	10 mg/m3	Fume.
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
•		5 ppm	
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m3	Fume.
·	TWA	1 mg/m3	Fume.
ogical limit values	No biological exposure limits noted for	or the ingredient(s).	
	Oned managed contiletion (tomically 40		

Bio

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Not available. Form Color Light yellow. Odor Strong acidic. **Odor threshold** Not available.

2 - 3 Hq

Oatey No. 11 Liquid Flux SDS US 922566 Version #: 03 Revision date: 19-February-2015 Issue date: 16-October-2014 3/7

Melting point/freezing point

Not available.

Initial boiling point and boiling

208 °F (97.78 °C)

range

Flash point

Not Applicable

**Evaporation rate** 

Not available.

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

> 1

Relative density

1.14

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

10 cP

#### 10. Stability and reactivity

Reactivity

reactions

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Contact with incompatible materials.

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Strong oxidizing agents.

Incompatible materials

Hazardous decomposition

No hazardous decomposition products are known.

### products

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

Skin contact Eve contact

Causes severe skin burns. Causes serious eye damage.

Ingestion

Causes digestive tract burns.

Symptoms related to the physical, chemical and

toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Not available.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Oatey No. 11 Liquid Flux

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Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloric acid (CAS 7647-01-0)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not available.

Chronic effects

Prolonged inhalation may be harmful.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available. No data available.

Mobility in soil Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### 14. Transport information

DOT

UN number

UN1760

UN proper shipping name

Corrosive liquids, n.o.s. (Hydrochloric acid RQ = 38462 LBS, Zinc chloride RQ = 3030 LBS)

Transport hazard class(es) Class

Subsidiary risk 8 Label(s) Packing group Ш

Special precautions for user Not available.

Special provisions

A6, A7, B10, T14, TP2, TP27

Packaging exceptions Packaging non bulk

None 201 243

8

Packaging bulk IATA

> **UN number** UN1760

UN proper shipping name

Corrosive liquid, n.o.s. (Hydrochloric acid, Zinc chloride)

Transport hazard class(es) Class

Subsidiary risk

8 Ш

Revision date: 19-February-2015

Packing group Oatey No. 11 Liquid Flux

922566 Version #: 03

SDS US

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Issue date: 16-October-2014

Environmental hazards

No.

**ERG Code** 

8L

Special precautions for user Not available.

**IMDG** 

**UN number** 

UN1760

UN proper shipping name

CORROSIVE LIQUID, N.O.S. (Hydrochloric acid, Zinc chloride)

Transport hazard class(es)

Subsidiary risk

8

Packing group

Class

Ш

**Environmental hazards** 

Marine pollutant

No.

**EmS** 

F-A, S-B

Special precautions for user Not available.

Transport in bulk according to

Not available.

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Ammonium chloride (CAS 12125-02-9)

LISTED

Hydrochloric acid (CAS 7647-01-0) Zinc chloride (CAS 7646-85-7)

LISTED LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Chemical name

CAS number

Threshold planning quantity (pounds)

Threshold planning quantity,

lower value

(pounds)

Threshold planning quantity, upper value

(pounds)

7647-01-0

500

Hydrochloric acid

No

SARA 311/312 Hazardous

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Zinc chloride	7646-85-7	15-40
Hydrochloric acid	7647-01-0	10-30
Ammonium chloride	12125-02-9	3-7

Reportable

quantity

(pounds)

5000

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Hydrochloric acid (CAS 7647-01-0)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Hydrochloric acid (CAS 7647-01-0)

Safe Drinking Water Act

Not regulated.

(SDWA)

Oatey No. 11 Liquid Flux SDS US

922566 Version #: 03 Revision date: 19-February-2015 Issue date: 16-October-2014

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#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Hydrochloric acid (CAS 7647-01-0)

6545

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Hydrochloric acid (CAS 7647-01-0)

20 %WV

#### **DEA Exempt Chemical Mixtures Code Number**

Hydrochloric acid (CAS 7647-01-0)

6545

#### US state regulations

#### US. Massachusetts RTK - Substance List

Ammonium chloride (CAS 12125-02-9) Hydrochloric acid (CAS 7647-01-0) Zinc chloride (CAS 7646-85-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Ammonium chloride (CAS 12125-02-9) Hydrochloric acid (CAS 7647-01-0) Zinc chloride (CAS 7646-85-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium chloride (CAS 12125-02-9) Hydrochloric acid (CAS 7647-01-0) Zinc chloride (CAS 7646-85-7)

#### US, Rhode Island RTK

Ammonium chloride (CAS 12125-02-9) Hydrochloric acid (CAS 7647-01-0) Zinc chloride (CAS 7646-85-7)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
#A W/a all in all a state that a second cost and		

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

16-October-2014 Issue date Revision date 19-February-2015

Version # 03 **HMIS®** ratings Health: 3

Flammability: 0 Physical hazard: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

SDS US 922566 Version #: 03 Revision date: 19-February-2015 Issue date: 16-October-2014 7/7

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### SAFETY DATA SHEET



#### 1. Identification

Product identifier Harvey Seal

Other means of identification

Product code 3703E

Synonyms

Part Numbers: 025020, 025050, 025080

Recommended use

Pipe Joint Compound for Threaded Metal Pipes

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name

William H. Harvey Company

Address

4334 South 67th Street Omaha, NE 68117

Telephone

402-331-115

E-mail

info@oatey.com

**Transport Emergency** 

Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

**Emergency First Aid** Contact person

1-877-740-5015 **MSDS** Coordinator

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**OSHA** defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

**Hazard statement** 

The mixture does not meet the criteria for classification.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

#### 3. Composition/information on ingredients

Revision date: -

#### **Mixtures**

Chemical name	CAS number	%	
Calcium carbonate	1317-65-3	60-70	
Oxidized Soy Bean Oil	68152-81-8	10-20	
2-Butoxyethanol	111-76-2	5-10	
Silicon Dioxide	112926-00-8	1-5	
Crystalline silica (Quartz)	14808-60-7	< 1.5	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Issue date: 05-February-2015

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Harvey Seal 924490 Version #: 01 Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

the chemical

Specific hazards arising from

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3		
		50 ppm		
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.	
•		15 mg/m3	Total dust.	
US. OSHA Table Z-3 (29 CFR 1910	.1000)	·		
Components	Туре	Value	Form	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.	-(
		0.1 mg/m3	Respirable.	

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

00. 00 IA Table 2-3 (25 0) K 15	10.1000)		
Components	Туре	Value	Form
Silicon Dioxide (CAS 112926-00-8)	TWA	0.8 mg/m3	
		20 mppcf	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	Form
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	Form
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
Calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
•		10 mg/m3	Total
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Silicon Dioxide (CAS 112926-00-8)	TWA	6 mg/m3	

#### Biological limit values

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA),	Creatinine in urine	*
		with hydrolysis		

<sup>\* -</sup> For sampling details, please see the source document.

#### Exposure guidelines

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2)

Skin designation applies.

US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

Use a particulate filter respirator for particulate concentrations exceeding the Occupational

Exposure Limit.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

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General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state

Liquid.

Form

Liquid, Liquid paste.

Color

Yellow.

Odor

Petroleum.

Odor threshold

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

Not available.

range

Нq

Not available.

Flash point

153.0 °F (67.2 °C)

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

> 1

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature Decomposition temperature Not available. Not available.

Viscosity

30000 cP

Other information

VOC (Weight %)

119 g/l

#### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport,

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Acids. Strong oxidizing agents. Fluorine.

Hazardous decomposition products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Harvey Seal

SDS US

924490 Version #: 01 Revision date: -Issue date: 05-February-2015 Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

#### Information on toxicological effects

Acute toxicity

Components
Silicon Dioxide (CAS 112926-00-8)

Test Results

Acute

Oral

Orai

LD50

Rat

> 22500 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Species** 

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

#### IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxvethanol (CAS 111-76-2)

Crystalline silica (Quartz) (CAS 14808-60-7)

Silicon Dioxide (CAS 112926-00-8)

3 Not classifiable as to carcinogenicity to humans.

1 Carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Crystalline silica (Quartz) (CAS 14808-60-7)

Known To Be Human Carcinogen.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged exposure may cause chronic effects.

**Further information** 

This product has no known adverse effect on human health.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Harvey Seal

SDS US

924490 Version #: 01 Revision date: - Issue date: 05-February-2015

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol (CAS 111-76-2)

0.83

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

General information

Not established.

DOT: Not regulated as dangerous goods except when shipped in bulk. This material is not

regulated if in a container of 119 gallon (450 L) capacity or less.

15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed

CERCLA Hazardous Substance List (40 CFR 302.4)

2-Butoxyethanol (CAS 111-76-2)

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No. Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. 2-Butoxyethanol 111-76-2 5-10

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Version #: 01

Harvey Seal 924490

SDS US Revision date: -Issue date: 05-February-2015

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2)

Calcium carbonate (CAS 1317-65-3)

Crystalline silica (Quartz) (CAS 14808-60-7)

Silicon Dioxide (CAS 112926-00-8)

#### US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2)

Calcium carbonate (CAS 1317-65-3)

Crystalline silica (Quartz) (CAS 14808-60-7)

Silicon Dioxide (CAS 112926-00-8)

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2)

Calcium carbonate (CAS 1317-65-3)

Crystalline silica (Quartz) (CAS 14808-60-7)

#### US. Rhode Island RTK

2-Butoxyethanol (CAS 111-76-2)

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Crystalline silica (Quartz) (CAS 14808-60-7)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date

05-February-2015

Revision date

Version #

01

**HMIS®** ratings

Health: 0

Flammability: 2

Physical hazard: 0

NFPA ratings



A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### Disclaimer

William H. Harvey Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

## **Oatey**®

#### SAFETY DATA SHEET

#### 1. Identification

Product identifier

**Oatey Plumber's Putty** 

Other means of identification

Product code

1705E

Synonyms

Part Numbers: 31166, 31167, 31170, 31174, 48003, 48004

Recommended use

Plumbing Mastic

Recommended restrictions

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

#### Manufacturer/Importer/Supplier/Distributor information

Company Name

Oatey Co.

Address

4700 West 160th St. Cleveland, OH 44135

Telephone

216-267-7100

E-mail

info@oatey.com

**Transport Emergency** 

Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

**Emergency First Aid** 

1**-**877-740-5015

Contact person

**MSDS** Coordinator

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**OSHA** defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

The mixture does not meet the criteria for classification.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

#### 3. Composition/information on ingredients

#### **Mixtures**

925325

Version #: 01

Chemical name	CAS number	% 60-90	
Limestone	1317-65-3		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5-30	
Crystalline silica (Quartz)	14808-60-7	<1	
Other components below reportable levels		9.85	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Issue date: 22-April-2015

Oatey Plumber's Putty

Revision date: -

#### 4. First-aid measures

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation

Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Ingestion

Most important

symptoms/effects, acute and

delayed

Treat symptomatically.

Coughing.

Indication of immediate medical attention and special

treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to General information protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places

where dust is formed. Do not breathe dust. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
,		2000 mg/m3 500 ppm	
lestone (CAS 1317-65-3)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.

Oatey Plumber's Putty SDS US Issue date: 22-April-2015 2/7

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form

Crystalline silica (Quartz) (CAS 14808-60-7) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
	TV,VA	5 mg/m3	Mist.
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

Biological limit values

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

0.025 mg/m3

5 mg/m3

Respirable fraction.

Inhalable fraction.

should be monitored and controlled.

TWA

TWA

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

Use a particulate filter respirator for particulate concentrations exceeding the Occupational

Exposure Limit.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Solid.
Form Putty.
Color Off-white.
Odor Slight.

Odor threshold Not available.

pH Not applicable

Melting point/freezing point Not available.

Oatey Plumber's Putty SDS US

Initial boiling point and boiling

range

Not determined

Flash point

> 212.0 °F (> 100.0 °C)

**Evaporation rate** Flammability (solid, gas) Not available. Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Vapor pressure Not available.

Vapor density

Not available.

Relative density

1.87

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available. Not available.

Decomposition temperature Viscosity

> 500000 cP

Other information

VOC (Weight %)

20 g/l

#### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport,

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Acids, Fluorine.

Hazardous decomposition products

No hazardous decomposition products are known.

No dangerous reaction known under conditions of normal use.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation.

Eve contact Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics Coughing.

Information on toxicological effects

Acute toxicity

Not available.

Skin corrosion/irritation Serious eye damage/eye Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Oatev Plumber's Putty 925325 Version #: 01 Revision date: - Issue date: 22-April-2015 SDS US

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Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) Risk of cancer cannot be excluded with prolonged exposure.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (Quartz) (CAS 14808-60-7)

1 Carcinogenic to humans.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

3 Not classifiable as to carcinogenicity to humans.

#### NTP Report on Carcinogens

Crystalline silica (Quartz) (CAS 14808-60-7)

Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Further information

This product has no known adverse effect on human health.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

Oatey Plumber's Putty SDS US 925325 Version #: 01 Revision date: -Issue date: 22-April-2015

#### 15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### US. Massachusetts RTK - Substance List

Crystalline silica (Quartz) (CAS 14808-60-7)

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Limestone (CAS 1317-65-3)

#### US. New Jersey Worker and Community Right-to-Know Act

Crystalline silica (Quartz) (CAS 14808-60-7)

Limestone (CAS 1317-65-3)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Crystalline silica (Quartz) (CAS 14808-60-7)

Limestone (CAS 1317-65-3)

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Crystalline silica (Quartz) (CAS 14808-60-7)

Methanol (CAS 67-56-1)

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date

22-April-2015

Oatey Plumber's Putty SDS US

Revision date Version #

HMIS® ratings

01

Health: 0 Flammability: 0 Physical hazard: 0

NFPA ratings



Disclaimer

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Oatey Plumber's Putty

925325 Version #: 01 Revision date: - Issue date: 22-April-2015

## **Oatey**®

#### SAFETY DATA SHEET

#### 1. Identification

Product identifier Oatey No. 5 Paste Flux

Other means of identification

SDS number 1610E

Synonyms Part Numbers: No 5- 30011, 30013, 30014, 30038, 30041, 48307, 48420, 48421, 48422, 48423,

53017, 53060, 53200, Hot Weather- 30062

Recommended use Joining Copper Pipes. Joining Copper Tubing.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St. Cleveland, OH 44135

 Telephone
 216-267-7100

 E-mail
 info@oatev.com

**Transport Emergency** Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887) **Emergency First Aid** 1-877-740-5015

Contact person MSDS Coordinator

#### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage.

Precautionary statement

Prevention Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection. Do not breathe dusts or mists.

Response If swallowed: Rinse mouth. Do not induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage Store locked up

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

Not applicable.

#### 3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Petrolatum	8009-03-8	60-100

Oatey No. 5 Paste Flux SDS US

Zinc chloride	7646-85-7	10-30	
Water	7732-18-5	3-7	
Ammonium chloride	12125-02-9	1-5	

#### irst-aid measures

lation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

blindness could result.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Contact

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Call a Eye contact

physician or poison control center immediately. Remove contact lenses, if present and easy to do.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

treatment needed

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Ingestion

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

equipment/instructions

Specific methods General fire hazards

Fire fighting

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike far ahead of spill for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910,1000)

Components	Туре	Value	Form	
Petrolatum (CAS 8009-03-8)	PËL	5 mg/m3	Mist.	· · · · ·
Zinc chloride (CAS 7646-85-7)	PEL	1 mg/m3	Fume.	

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Ammonium chloride (CAS 12125-02-9)	STEL	20 mg/m3	Fume.
·	TWA	10 mg/m3	Fume.
Petrolatum (CAS 8009-03-8)	TWA	5 mg/m3	Inhalable fraction.
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m3	Fume.
,	TWA	1 mg/m3	Fume.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form	
Ammonium chloride (CAS 12125-02-9)	STEL	20 mg/m3	Fume.	
•	TWA	10 mg/m3	Fume.	
Petrolatum (CAS 8009-03-8)	STEL	10 mg/m3	Mist.	
•	TWA	5 mg/m3	Mist.	
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m3	Fume.	
•	·TWA	1 mg/m3	Fume.	

Biological limit values

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection

Other

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state	Solid.
Form	Solid. Paste.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.

Oatey No. 5 Paste Flux SDS US Melting point/freezing point

Not available.

Initial boiling point and boiling

638 °F (336.67 °C)

range

Flash point

540.0 °F (282.2 °C)

**Evaporation rate** 

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%)

Explosive limit - upper (%)

Not available. Not available.

Vapor pressure

Not available.

Vapor density Relative density > 1 1.1

Solubility(ies)

Solubility (water)

Insoluble

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

20000 - 40000 cP

Other information

VOC (Weight %)

29 g/l 3% by weight

#### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Contact with incompatible materials.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Incompatible materials Hazardous decomposition Strong oxidizing agents.

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation

Ingestion

Prolonged inhalation may be harmful. May cause irritation to the respiratory system,

Skin contact Eye contact

Causes serious eye damage. Causes digestive tract burns.

Causes severe skin burns.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Not available.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Oatey No. 5 Paste Flux

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Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity None known.

IARC Monographs. Overall Evaluation of Carcinogenicity

Petrolatum (CAS 8009-03-8) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not available.

Chronic effects

Prolonged inhalation may be harmful.

#### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Oatey No. 5 Paste Flux SDS US 922567 Version #: 03 Revision date: 19-February-2015 | Issue date: 26-October-2014

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#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Ammonium chloride (CAS 12125-02-9) Zinc chloride (CAS 7646-85-7)

LISTED LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Zinc chloride	7646-85-7	10-30
Ammonium chloride	12125-02-9	1-5

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### US. Massachusetts RTK - Substance List

Ammonium chloride (CAS 12125-02-9)

Petrolatum (CAS 8009-03-8)

Zinc chloride (CAS 7646-85-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Ammonium chloride (CAS 12125-02-9)

Petrolatum (CAS 8009-03-8)

Zinc chloride (CAS 7646-85-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium chloride (CAS 12125-02-9)

Petrolatum (CAS 8009-03-8)

Zinc chloride (CAS 7646-85-7)

#### US. Rhode Island RTK

Ammonium chloride (CAS 12125-02-9)

Zinc chloride (CAS 7646-85-7)

#### US, California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes

Oatey No. 5 Paste Flux

SDS US

922567 Version #: 03 Revision date: 19-February-2015 Issue date: 26-October-2014

Country(s) or region

Inventory name

On inventory (yes/no)\*

New Zealand

New Zealand Inventory

Yes

Philippines

Philippine Inventory of Chemicals and Chemical Substances

Yes

(PICCS)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date

26-October-2014

Revision date

19-February-2015

Version #

03

**HMIS®** ratings

Health: 3 Flammability: 0

Physical hazard: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for use, handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

922567 Version #: 03 7/7

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**CEMENT & CONCRETE PRODUCTS™** 

### **C9: Portland Cement Based Concrete Products**

## SAFETY DATA SHEET (Complies with OSHA 29 CFR 1910.1200)

#### **SECTION I: PRODUCT IDENTIFICATION**

The QUIKRETE® Companies
One Securities Centre

3490 Piedmont Road, Suite 1300

Atlanta, GA 30305

Emergency Telephone Number

(770) 216-9580

Information Telephone Number

(770) 216-9580

Revision: Jan-16

SDS C9

	<u>Item #(s)</u>
	1103
	1103-88, NR83003
	1103-84
	1123
	1133, 1132, 1131-15
	1133-18, -04
1143	
	1173
	1215
	1548-55
	NR3004
	NR83994
	NR83999
	1143

Product Use: Portland cement-based, aggregated products for repairs and general construction

#### **SECTION II - HAZARD IDENTIFICATION**

Hazard-determining components of labeling: Silica, Portland cement

2.1 Classification of the substance or mixture

Carcinogen – Category 1A Skin Corrosion – Category 1B

Skin Sensitization - Category 1B

Specific Target Organ Toxicity Repeat Exposure – Category 1 Specific Target Organ Toxicity: Single Exposure – Category 3



# 2a Signal word DANGER!

### **?b Hazard Statements**

y cause cancer through chronic inhalation
uses severe skin burns and serious eye damage
May cause an allergic skin reaction
Causes damage to lungs through prolonged or repeated inhalation
May cause respiratory irritation

# 2.2c Pictograms







# 2.2d Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear impervious gloves, such as nitrile. Wear eye protection, and protective clothing.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Use only in a well-ventilated area.

Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on skin (or hair): Řemove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.

If significant skin irritation or rash occurs: get medical advice or attention.

# Immediately seek medical advice or attention if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/containers in accordance with all regulations.

### 2.3 Additional Information

The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is



contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr(VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

2.3a HNOC – Hazards not otherwise classified: Not applicable

2.3b Unknown Acute Toxicity: None

2.3C WHMIS Classification

Class D2B – Skin/Eye Irritant

Class D2A - Chronic Toxic Effects - Carcinogen

Class E - Corrosive Material

# 2.3d Label Elements According To WHMIS Hazard Symbols





# Signal Word DANGER!

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION					
Hazardous Components	CAS No.	% by Weight			
Sand, Silica, Quartz	14808-60-7	40-70*			



Portland Cement Fly Ash

65997 15 1

10-30\*

68131-74-8

5-10\*

\*The concentrations ranges are provided due to batch-to-batch variability. None of the constituents of this material are of unknown toxicity.

# **SECTION IV - FIRST AID MEASURES**

# 4.1 Description of the first-aid measures

# General information:

**After inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

**After skin contact:** Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

# 4.2 Most important symptoms/effects, acute and delayed

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns.

Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other



changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr(VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed: Immediately seek medical advice or attention if symptoms are significant or persist.

# **SECTION V - FIRE FIGHTING MEASURES**

- 5.1 Flammability of the Product: Non-flammable and non-combustible
- **5.2 Suitable extinguishing agents:** Treat for surrounding material
- 5.3 Special hazards arising from the substance or mixture: None
- 5.3a Products of Combustion: None
- **5.3b Explosion Hazards in Presence of Various Substances:** Non-explosive in presence of shocks

# SECTION VI - ACCIDENTAL RELEASE MEASURES

- **6.1 Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See section VIII). Keep unprotected persons away.
- 6.2 Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

# 7.1 Handling



Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8).Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

# 7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

**Further information about storage conditions:** Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

SECTION VIII - EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION					
8.1 Components with lir	nit values that re	quire monitoring at the v	vorkplace:		
Hazardous Components	CAS No.	PEL (OSHA) mg/M³	TLV (ACGIH) mg/M <sup>3</sup>		
Silica Sand, crystalline Portland Cement	14808-60-7 65997-15-1	0.1 5 (resp) 15 (total)	0.025 (resp) 10 (resp)	(	
Fly Ash	68131-74-8	N/A	N/A		

# **8.2 Exposure Controls**

Use ventilation adequate to keep exposures below recommended exposure limits.

# 8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

# 8.3a Personal protective equipment

# Protection of hands:

Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. Precautions must be observed because burns occur with little warning -- little heat is sensed.

# Eve protection:

Wear approved eye protection (properly fitted dust- or splash-proof chemical safety glasses.

# Respiratory protection:

A NIOSH-approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used

ONE SECONTIES CENTRE, 3430 FIEDMONT ROAD, SOITE 1300, ATEANTA, GA 30303 SUS C9 TEL 404-034-9100 WWW.QUIKREJE.CC	-			
			TEL 404-634-9100	



under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

# SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

**General Information** 

Appearance Form: Granular Solid

Color: Gray to gray-brown colored

Odor: None

pH-value at 20°C (68 °F): 13 (10%)

Boiling point/Boiling range: Not applicable Flash point: Not applicable

Auto igniting: Product is not self-igniting

Vapor pressure at 21°C (70°F) Not available Density at 25°C (77 °F): 2.6 to 3.15

Solubility in / Miscibility with

Water: Insoluble VOC content: 0 g/L VOC

### SECTION X - STABILITY AND REACTIVITY

# 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

# 10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

# 10.4 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

# 10.5 Incompatible materials

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires

# 10.6 Hazardous Decomposition or By-products

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

### SECTION XI - TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

# 11.2 Symptoms related to physical/chemical/toxicological characteristics:



**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

# 11.3 Delayed, immediate and chronic effects of short-term and long-term exposure Short Term

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes severe eye damage.

Respiratory Sensitization: Not available

Skin Sensitization: May cause an allergic skin reaction.

Specific Target Organ Toxicity-Single Exposure: (Category 3) May cause respiratory

irritation.

Aspiration Hazard: Not available

# **Long Term**

Carcinogenicity: May cause cancer through chronic inhalation.

Germ Cell Mutagenicity: Not available Reproductive Toxicity: Not available

Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs

through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not available.

# **SECTION XII - ECOLOGICAL INFORMATION**

# 12.1 Ecotoxicity

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

# 12.2 Persistence and degradability

No further relevant information available.

# 12.3 Bioaccumulative potential:



No further relevant information available.

# 12.4 Mobility in soil

No further relevant information available.

### 12.5 Other Adverse Effects

No further relevant information available.

# SECTION XIII - DISPOSAL CONSIDERATIONS

# 13.1 Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is <u>not</u> classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

# 13.2 Other disposal considerations

Uncleaned packaging

Recommendation: Disposal must be made in accordance with local, state and federal regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION XIV - TRANSPORT INFORMATION				
	DOT (U.S.)	TDG (Canada)		
UN-Number	Not Regulated	Not Regulated		
UN proper shipping name	Not Regulated	Not Regulated		
Transport Hazard Class(es)	Not Regulated	Not Regulated		
Packing Group (if applicable)	Not Regulated	Not Regulated		

### 14.1 Environmental hazards:

Not Available

# 14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Not available

# 14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

# **SECTION XV – OTHER REGULATORY INFORMATION**

# 15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

### Canada

WHMIS Classification: Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

# 15.2 US Federal Information

# SARA 302/311/312/313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

NTP: Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

OSHA Carcinogen: Crystalline silica (quartz) is not listed.

# 15.3 State Right to Know Laws

# California Prop. 65 Components

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

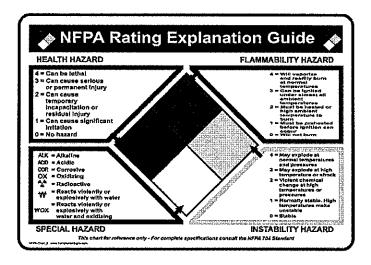
### 15.4 Global Inventories

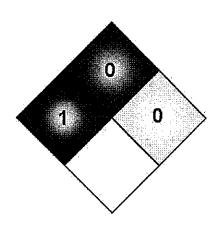
DSL All components of this product are on the Canadian DSL list.



**TSCA No.:** Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

# 15.5 NFPA Rating





# **SECTION XVI – OTHER INFORMATION**

Last Updated: January 4, 2016

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by The QUIKRETE® Companies

Phone (800) 282-5828 <u>www.QUIKRETE.com</u>



# **End of SDS**

HARE HARE, HARE BAIRS HARE FARE FARE

HEALTH

FLAMMABILITY

PRECEATHAZARD

Safety Glasses, Gloves

451-IIMST AV STAVISTAVISTAVISTAVISTA

PERSONAL PROTECTION



**CEMENT & CONCRETE PRODUCTS™** 

# **CONCRETE BONDING ADHESIVE**

MATERIAL SAFETY DATA SHEET (Complies with OSHA 29 CFR 1910.1200)

# SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE® Companies

**Emergency Telephone Number** 

One Securities Centre

(770) 216-9580

3490 Piedmont Road, Suite 1300 Atlanta, GA 30329

Information Telephone Number

(770) 216-9580

MSDS A1

Revision: Aug-11

Code #

QUIKRETE® Product Name
CONCRETE BONDING ADHESIVE

9902

Product Use: Liquid bonding agent for bonding new concrete to old concrete



Route(s) of Entry: Inhalation, Ingestion

Acute Exposure: None known

Chronic Exposure: Repeated or prolonged skin contact may result in mild irritation. Vapor may be

an irritant to the respiratory tract. Ingestion may cause irritation to the gastrointestinal tract.

Carcinogenicity: Not applicable

Signs and Symptoms of Exposure: None known

Medical Conditions Generally Aggravated by Exposure: None known

Chronic Exposure: None known

# SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

**Hazardous Components** 

CAS No.

PEL (OSHA)

Ma/m<sup>3</sup>

TLV (ACGIH) mg/m<sup>3</sup>

Vinyl Acetate Ethylene Co-polymer

Not Hazardous

Vinyl Alcohol Polymer

Not Hazardous

# **SECTION IV – First Aid Measures**

Eyes: Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids. Call physician immediately.

**Skin:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists.



Inhalation: Remove person to fresh air. Seek medical help if irritation persists.

**Ingestion:** Treat symptomatically and supportively. Get medical attention. DO NO attempt to give anything by mouth to an unconscious person.

# SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flammability: Noncombustible and not explosive. Auto-ignition Temperature: Not Applicable

Flash Point: > 212°F

Extinguishing Media: Water Fog; Foam; CO<sub>2</sub>; Dry Chemical

Special Firefighting Procedures: Fire fighters should be equipped with self-contained breathing

apparatus to protect against potentially toxic and irritating fumes.

**Fire & Explosion Hazards:** This is a water-based product and presents no particular fire or explosion hazard. Dry polymer film will burn. Product contains low level of organic volatiles which may be emitted at elevated temperatures.

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide, unknown hydrocarbons.

Lower Explosion Limit (%): Not Applicable Upper Explosion Limit (%): Not Applicable

# SECTION VI - ACCIDENTAL RELEASE MEASURES

Absorb spillages onto sand, earth or any suitable absorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Disposal should be in accordance with local, state or national legislation.

### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Storage Temperature: 40 – 100°F

Handling/Storage: Avoid extreme temperatures. Protect from freezing. This material should not be spilled, discharged, or flushed into sewers or public waterways. Product contains low level of organic volatiles which could accumulate in the un-vented headspace of drums or bulk storage vessels. Open drums in well-ventilated area, avoid breathing vapors.

# SECTION VIII - EXPOSURE CONTROL MEASURES

Engineering Controls: General.

**Personal Protection:** Wear safety glasses with side shields. Protect against splashing. The use of chemically resistant gloves is recommended. Clothing protection should be worn. Rubber boots and apron should be worn if exposure is severe. Remove contaminated clothing and launder before reuse.

Exposure Limits: Consult local authorities for acceptable exposure limits.



# SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance: Milky white liquid Specific Gravity: 1.0 to 1.2

Melting Point: 32°F (0°C)

Vapor Pressure: 17 mm Hg @ 68°F (20°C)

Boiling Point: >212°F (100°C)

Vapor Density: <1(water)

Vapor Pressure: 17 mm Hg @ 68°F (20°C)Vapor Density:<1(water)</th>Odor:vinyl acetate odorVOC:1.1 g/L

Evaporation Rate: <1(water)

Solubility in Water: Water miscible. Dilution with water generally will lower dispersion stability.

# **SECTION X - REACTIVITY DATA**

Stability: Stable.

Incompatibility (Materials to Avoid): Strong oxidizers, materials that react with water

Hazardous Decomposition or By-products: None

Hazardous Polymerization: Will Not Occur.

Condition to Avoid: Protect from temperatures below 40°F to preserve product utility.

# **SECTION XI – TOXICOLOGICAL INFORMATION**

Routes of Entry: Inhalation, Ingestion

**Toxicity to Animals:** 

LD50: Not Available LC50: Not Available

Chronic Effects on Humans: Not established

Special Remarks on Toxicity: Unlikely to cause harmful effects under recommended conditions of

handling and use

# **SECTION XII - ECOLOGICAL INFORMATION**

Ecotoxicity: Not Available BOD5 and COD: Not Available

Products of Biodegradation: Not available

Toxicity of the Products of Biodegradation: Not available

Special Remarks on the Products of Biodegradation: Ingress to waterways may cause

persistent milky turbidity.

# **SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Disposal should be in accordance with local, state or national legislation. This product is <u>not</u> classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302).

# SECTION XIV - TRANSPORT INFORMATION

DOT/UN Shipping Name: Non-regulated DOT Hazard Class: Non-regulated

Shipping Name: Non-regulated

Non-Hazardous under U.S. DOT and TDG Regulations

# SECTION XV - OTHER REGULATORY INFORMATION

SARA (Title III) Section 313: Not subject to reporting requirements



TSCA (May 1997): All components are on the TSCA inventory list

Federal Hazardous Substances Act: Is a hazardous substance subject to statues promulgated under the subject act

Canadian Environmental Protection Act: Not listed

Canadian WHMIS: Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of WHMIS. This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

### **SECTION XVI – OTHER INFORMATION**

**HMIS-III:** Health - 0 = No significant health risk

1 = Irritation or minor reversible injury possible

2 = Temporary or minor injury possible

3 = Major injury possible unless prompt action is taken

4 = Life threatening, major or permanent damage possible

Flammability- 0 = Material will not burn

1 = Material must be preheated before ignition will occur

2 = Material must be exposed to high temperatures before ignition

3 = Material capable of ignition under normal temperatures

4 = Flammable gases or very volatile liquids; may ignite spontaneously

Physical Hazard- 0 = Material is normally stable, even under fire conditions

1 = Material normally stable but may become unstable at high temps

2 = Materials that are unstable and may undergo react at room temp

3 = Materials that may form explosive mixtures with water

4 = Materials that are readily capable of explosive water reaction

### Abbreviations:

ACGIH American Conference of Government Industrial Hygienists

CAS Chemical Abstract Service

CERCLA Comprehensive Environmental Response, Compensation & Liability Act

CFR Code of Federal Regulations

CPR Controlled Products Regulations (Canada)

DOT Department of Transportation
IARC International Agency for Research
MSHA Mine Safety and Health Administration

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicity Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

RCRA Resource Conservation and Recovery Act

SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TWA Time-weighted Average

WHMIS Workplace Hazardous Material Information System



Revision #10-01, supersedes all previous revisions.

Created: November 15, 2006 Last Updated: August 23, 2011

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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# **Material Safety Data Sheet** Gila® Window Film Application and Cleaning Solution Part #'s: GTA002/GTA002SM/21002/FS200/RTK500/RTK500SM

Colonial Chemical, Inc. 225 Colonial Drive S.Pittsburg, TN 37380

Emergency Telephone #

423/837-8800

Chemtrec 800/424-9300

# SECTION I – PRODUCT INFORMATION

Product Name:

Gila Window Film Application and Cleaning Solution

File:

Chemical Name:

Na Salt of Dodecylbenzene Sulfonate

C.A.S. No.:

Proprietary

Direct Phone:

423/837-8800

THE CHEMTREC NUMBER IS TO BE CALLED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICALS.

# **SECTION II – HAZARDOUS INGREDIENTS**

Toxic & Hazardous Ingredients:

None

# SECTION III - PHYSICAL DATA

Form:

Clear Liquid

Appearance:

Pourable Liquid

Specific Gravity:

(water=1) approx. < 1.08

**Boiling Point:** 

No data available

Melting Point:

N/A

Solubility in Water (Weight %):

Volatile (Weight %):

Soluble at 25° C N/A

**Evaporation Rate:** 

N/A

Vapor Density:

No data available.

pH (10% Aqueous):

Stability:

Viscosity (cps at 25° C):

< 100

# SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point:

> 200°F, Pensky-Martens closed-cup

Product is stable under normal conditions.

Special Fire Fighting Procedures:

Firefighters must be equipped to prevent breathing of

vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective

clothing.

Unusual Fire and Exploding Hazards:

None

Extinguishing Agents:

Dry chemical, water spray, water fog, CO<sub>2</sub> foam or

sand/earth.

SECTION V - HEALTH HAZARD DATA

Permissible Concentrations (air):

N/A

Chronic Effects of Overexposure: Acute Toxicological Properties: No data available. Eye and skin irritant

**Emergency First Aid Procedures:** 

Eyes - Immediately flush with large quantities of water

for at least 15 minutes and call a physician.

Skin – Wash contacted area with copious amounts of soap and water. Remove contaminated clothing and launder before reuse. If irritation develops contact

physician.

Ingestion - contact poison control center or physician

immediately.

Inhalation – remove to fresh air. If necessary, give oxygen or artificial respiration. Contact physician.

SECTION VI - REACTIVITY DATA

Stability:

Stable under normal conditions.

Hazardous Polymerization:

Will not occur

Hazardous Decomposition Products:

Oxides of carbon and sulfur

Incompatibility:

Strong oxidizers such as hydrogen peroxide, bromine,

and chromic acid.

# SECTION VII – SPILL OR LEAK PROCEDURES

Procedures for Clean-up: Absorb with an inert material such as sand, soil or vermiculite; sweep up and dispose of in accordance with federal, state and local regulations.

Precautions to be taken in handling and storing: Store between 60° F and 120° F.

# SECTION VIII - WASTE DISPOSAL METHOD

Waste Disposal: In accordance with all applicable federal, state, and local regulations.

# SECTION IX - SPECIAL PROTECTION INFORMATION

Respiratory Protection:

N/A

Ventilation:

Mechanical

Eye Protection:

Chemical safety goggles

Protective Gloves:

Rubber or plastic, solvent resistant

Other Protection: Neoprene protective type apron

# SECTION X - REGULATORY INFORMATION

TSCA:

Listed in TSCA inventory

Sara Title III, Section 313:

None

California Proposition 65:

None

Pennsylvania Worker and Community Right to Know Act. This product contains the following ingredient(s) listed in Appendix A Hazardous Substance List. Sodium dodecylbenzene sulfonate 25155-30-0.

# SECTION XI - TRANSPORTATION INFORMATION

Proper Shipping Name:

Liquid soap, N.O.S.

DOT Hazard Class:	Not regulated	
SECTION XII -	- TOXICOLOGICAL INFORMATION	,
-CARCINOGENICITY:	N/A	
-TERATOGENICITY:	N/A	
-REPRODUCTION:	N/A	
-MUTAGENICITY:	N/A	
SECTION XI	III – ECOLOGICAL INFORMATION	
-BIODEGRADABILITY: YES		

The above data is for information purposes only and is accurate to the best of Colonial Chemical, Inc.'s knowledge. No guarantees or liabilities are expressed or implied.

**REVISED: 02-05-02** 

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### DBC® Lime & Mineral Solvent

April 28, 2015

# SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DBC Lime & Mineral Solvent

PRODUCT ID: 4100x

PRODUCT USE: Cleaning compound

EMERGENCY: CALL CHEMTREC 1-800-424-9300

National Chemicals, Inc.

PO Box 32, Winona, MN 55987

800-533-0027 or 507-454-5640 info@NationalChemicals.com

#### SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION:

21.0 QE 10011 (01 11 10 11 1			
Health	·	Environmental	Physical
Acute Toxicity, oral: Skin Corrosion/Irritation: Eye Irritation:	Category 1C		·

**Hazard Symbols:** Acute Toxicity, oral Skin Corrosion

Eve Irritation



Signal Word: **DANGER** 

Hazard Statements **Precautionary Statements** 

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

P102: Keep out of reach of children P260: Do not breathe mist, vapors or spray

P264: Wash thoroughly after handling

P270: Do not eat, drink, or smoke when using this product

P280: Wear gloves and eye protection

MANUFACTURER:

#### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name** CAS No. Concentration % by Weight Sulfamic Acid 5329-14-6 10-20% Glycolic Acid 79-14-1 ≤ 10% Phosphoric Acid 7664-38-2 ≤ 10%

Other ingredients are judged to be non-hazardous, their CAS numbers and exact percent of composition are proprietary to National Chemicals, Inc.

#### SECTION 4 FIRST AID MEASURES

Immediately call Poison Center or doctor. Rinse cautiously with for several minutes. Remove contact lenses, if present. If in Eves:

Continue rinsing.

If on Skin (or hair): Immediately call Poison Center or doctor. Immediately take off contaminated clothing. Rinse skin with water. Wash

contaminated clothing before reuse.

Call Poison Center or doctor. Remove person to fresh air and keep comfortable for breathing. If Inhaled:

If Swallowed: Immediately call Poison Control or doctor. Rinse mouth. Do NOT induce vomiting.

### SECTION 5 FIREFIGHTING MEASURES

Flammable Properties: Not Flammable

Suitable Extinguishing Media: Flood with water for extinguishing agent.

**Hazardous Combustion Products:** Unknown

Protection for Firefighters: Wear self-contained breathing apparatus and full protective gear, as with any fire.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate area. Use personal protective equipment. Contain spill with dikes, sandbags, etc. Personal Precautions:

**Environmental Precautions:** Do not flush to sewer. This material is acidic and may lower the pH of the surface waters.

Methods For Cleaning Up: Neutralize with alkaline material (soda ash, lime or dilute caustic soda) then absorb with an inert material

(vermiculite, dry sand, earth). Flush remaining material with plenty of water.

#### SECTION 7 HANDLING AND STORAGE

Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly Handling:

add chemical to water. Never add water to chemical.

Storage: Keep container tightly closed and properly labeled. Store in a cool, dry place. Do not freeze. Do not store in aluminum

container or use aluminum fittings or transfer lines. Keep separate from alkalis.

Avoid inh

Small am

Sweep ur

PRECAUTIONS TO CONTROL EXPOSURE/PERSONAL PROTECTION SECTION 8

Eye Protection: Wear safety glasses with side shields.

Skin Protection: Use neoprene gloves. Always place pant legs over boots. Thoroughly clean and dry contaminated clothing before reuse,

Provide local exhaust ventilation where vapor or mist may be generated. Respiratory:

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid

Acidic in Solution pH: Odor: Odorless **Boiling Point:** Greater than 212°F (100 °C) Water Solubility: Soluble Freezing Point: Less than 32 °F (0 °C)

STABILITY AND REACTIVITY SECTION 10

> Stability: Stable at normal temperatures and pressure.

Thermal decomposition products or combustion: hydrogen gas or phosphorus oxides. Decomposition:

Incompatible Materials: Soft metals (i.e. aluminum, zinc) and strong alkalis (i.e. sodium hydroxide, mercuric sulfate, perchloric acid).

SECTION 11 TOXICOLOGICAL INFORMATION

Likely Routes Of Exposure: Eye and skin contact.

Acute Systems And Effects: The severity of the tissue damage is a function of concentration, the length of tissue contact time, and local

tissue conditions. After exposure there may be a time delay before irritation and other effects occur

Eye Contact: Exposure may cause severe burns and permanent damage to eyes. Skin Contact: Exposure may cause severe burns and permanent tissue damage.

May cause irritation. Extreme exposures may cause burns to respiratory tract, nose, mouth, and throat. Inhalation:

Ingestion may cause internal burns and tissue damage. Ingestion:

**Chronic Effects:** None known

**ECOLOGICAL INFORMATION** ะ วะบาเปN 12

Biodegradation:

In large quantities, this material may be harmful to aquatic life. Eco-toxicity:

SECTION 13 WASTE DISPOSAL CONSIDERATIONS

Flush spill with plenty of water before disposal. Dispose in accordance with all applicable regulations.

SECTION 14 TRANSPORT INFORMATION

> Hazard Class: Not classified as hazardous according to Department of Transportation

REGULATORY INFORMATION SECTION 15

> **TSCA Inventory Status:** All components of this product are on the TSCA Inventory or are exempt for TSCA Inventory requirements.

SARA TITLE III,

**SECTIONS 311/312:** ACUTE: Yes CHRONIC: No FIRE: No REACTIVE: No SUDDEN RELEASE: No

**SARA TITLE 313:** Not regulated

SECTION 16 OTHER INFORMATION

**Training Necessary:** Yes, training in practices and procedures contained in product literature or on product label

April 28, 2015 Issue Date: Supersedes: June 29, 2010

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.



# SAFETY DATA SHEET

### 1. Product and Company Identification

Product identifier

Salt

Other means of identification

Sodium Chloride

Sifto Safe Step Standard Salt

Sifto Ice Salt

Sifto Sodium Chloride Sifto Safe Step EnviroGuard

QwikSalt Ice-A-Way IceAway Turbo IceAway Turbo Blue Safe Step 3300

Aspen Aspen Blue

Safe Step 4300 Dual Blend Safe Step 4300 Dual Blend Blue

EconoBlend 370 Winter Storm Winter Storm Blue Safe Step Pro Series 550 Safe Step Pro Series 570 Safe Step 6300 Enviro Blend

Safe Step Pro Series 960 Choice Formula

Safe Step Sure Paws Sifto Safe Step Sure Paws

American Stockman Animal Nutrition Products

Nature's Own water care products Sure Soft water care products Natural Salt water care Pro Soft water care products

Recommended use

De-icer. General industrial and water softening/conditioning purposes. Animal Nutrition.

Recommended restrictions

None known.

Manufacturer

Compass Minerals International 9900 West 109th Street, Suite 100 Overland Park, KS 66210 US

Phone 913-344-9200

1-800-424-9300

Emergency US CHEMTREC 1-800-424-9300 Emergency Canada CANUTEC 1-800-996-6666

CHEMTREC CANUTEC

1-800-996-6666

# 2. Hazards Identification

Not classified. Physical hazards Health hazards Not classified. **Environmental hazards** Not classified. Not classified. OSHA defined hazards

Label elements

Hazard symbol None. Signal word None.

Hazard statement The product and/or mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials, i.e, strong oxidizing agents (see Section 10) Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

Not applicable.

	3. Composition/Information on Ingredients			
Salt and/or Salt Mixtures				
Composition comments  The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers  Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater, components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. The products pertaining to the have various proportions of components which do not meet the listing criteria.				
	4. First Aid Measures			
Inhalation	Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.			
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.			
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.			
Ingestion	Rinse mouth. If ingestion of a large amount does occur, seek medical attention.			
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.			
Indication of immediate medical attention and special treatment needed	Treat symptomatically.			
	5. Fire Fighting Measures			
Suitable extinguishing media	Salt and salt mixtures are non-combustible.			
Unsuitable extinguishing media	Not applicable.			
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.			
Special protective equipment and precautions for firefighters	Use appropriate firefighting PPE as a general precaution.			
Fire-fighting equipment/instructions	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.			
Specific methods	In the event of a fire, equipment and methods that are consistent with the combusting material should be utilized.			
General fire hazards	No unusual fire or explosion hazards noted.			
Hazardous combustion products	Chlorine. Hydrogen chloride. Oxides of sodium.			
Explosion data				
Sensitivity to mechanical impact	Not available.			
Sensitivity to static discharge	Not available.			
	6. Accidental Release Measures			
Personal precautions, protective equipment and emergency procedures	Restrict area to facilitate clean up.			
Methods and materials for Stop the flow of material, if this is without risk. Prevent direct entry into waterways and sew Following product recovery, flush area with water if necessary. For waste disposal, see second of the SDS.				
Environmental precautions	Avoid direct release into waterways and sewers.			
	7. Handling and Storage			
Precautions for safe handling	Use care in handling/storage. Avoid breathing dust.			
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials, i.e, strong oxidizing agents (see Section 10)			
	8. Exposure Controls/Personal Protection			
Occupational exposure limits	No exposure limits noted for ingredient(s).			

Appropriate engineering controls

TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses if eye contact is possible.

Skin protection

Hand protection

If there is constant skin contact, rubber gloves are recommended.

Other

Wear suitable protective clothing.

Respiratory protection

No personal respiratory protective equipment normally required.

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

# 9. Physical and Chemical Properties

**Appearance** Crystalline. Physical state Solid. Form Solid. Varies Color Odor Odorless Odor threshold Not applicable pΗ 6 - 8 (Neutral) Melting point/freezing point Not applicable Initial boiling point and boiling Not applicable range Pour point Not applicable Not applicable Not applicable (n-octanol/water)

Specific gravity Partition coefficient

Flash point Not applicable **Evaporation rate** Not applicable Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable

Flammability limit - upper

Not applicable

Explosive limit - lower (%) Not applicable Explosive limit - upper (%) Not applicable

Vapor pressure Not applicable Vapor density Not applicable Relative density Not applicable Solubility(ies) Not available. Auto-ignition temperature Not applicable Decomposition temperature Not applicable

# 10. Stability and Reactivity

Reactivity

Viscosity

None known.

Not applicable

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Contact with incompatible materials, i.e strong oxidizing agents.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products Chlorine gas. Hydrogen chloride. Oxides of sodium.

### 11. Toxicological Information

### Information on likely routes of exposure

Ingestion

Expected to be a low ingestion hazard.

Inhalation

No adverse effects due to inhalation are expected.

Skin contact Eye contact No adverse effects due to skin contact are expected.

Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

Acute toxicity

Not classified.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Exposure minutes

Not available.

Erythema value

Not available.

Oedema value

Not available.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value

Not available. Not available.

Iris lesion value
Conjunctival reddening

Not available.

value

Conjunctival oedema value

Recover days

Not available.

### Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Teratogenicity

Not classified.

Specific target organ toxicity single exposure Not classified.

single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Aspiration hazard

Not classified. Not classified.

Chronic effects
Further information

This product has no known adverse effect on human health.

Name of Toxicologically

Not available.

# Synergistic Products

### 12. Ecological Information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Mobility in general

Not available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal Considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers in accordance with applicable regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# 14. Transport Information

# U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

WHMIS status

Not Controlled

### US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.
US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

### US. Rhode Island RTK

Not regulated.

### Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Canada

Non-Domestic Substances List (NDSL)

No

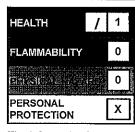
United States & Puerto Rico

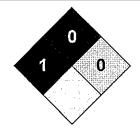
Toxic Substances Control Act (TSCA) Inventory

Yes

### 16. Other Information

LEGEND	
Severe Serious Moderate Slight Minimal	4 3 2 1





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained

in this document.

Issue date

29-August-2014

Effective date

01-August-2014

**Expiry date** 

01-August-2017

**Further information** 

Not available.

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)



# Safety Data Sheet

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**Document Group:** 

24-2136-0

Version Number:

9.00

Issue Date:

02/19/14

Supercedes Date:

10/01/12

# SECTION 1: Identification

### 1.1. Product identifier

3M<sup>™</sup> Bondo Red Cream Hardener 307, 913, 913M, 913C, 913ES, 928, 928C, 9307, 7653079, 810505D, 510506D, 810507D

### **Product Identification Numbers**

LB-K100-0415-4, LB-K100-0415-5, LB-K100-0415-6, LB-K100-0415-7, LB-K100-0540-4, LB-K100-1155-2, 41-0003-6615-7, 41-0003-6674-4, 41-0003-6682-7, 60-4550-4812-8, 60-4550-4999-3, 60-4550-5166-8, 60-4550-5582-6, 60-4550-5584-2, 70-0080-0037-7, 70-0080-0039-3, 70-0080-0147-4, 70-0080-0164-9, 70-0080-0172-2, 70-0080-0173-0, 70-0080-0174-8, 70-0080-0704-2, 70-0080-0705-9, 70-0080-0706-7

### 1.2. Recommended use and restrictions on use

### Recommended use

Automotive, Catalyst for Automotive Body Fillers

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Automotive Aftermarket

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

### 2.1. Hazard classification

Organic Peroxide: Type E.

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1.

### 2.2. Label elements

Signal word

Warning

### Symbols

Flame | Exclamation mark |





### **Hazard Statements**

Heating may cause a fire.

Causes serious eye irritation. May cause an allergic skin reaction.

### **Precautionary Statements**

### General:

Keep out of reach of children.

### Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep away from clothing and other combustible materials.

Keep only in original container.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

### Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

### Storage:

Protect from sunlight.

Store at temperatures not exceeding 32C/90F. Keep cool.

Store away from other materials.

# Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

# Notes to Physician:

Not applicable

### 2.3. Hazards not otherwise classified

None.

# SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Benzoyl Peroxide	94-36-0	30 - 60 Trade Secret *

Benzoic Acid, C9-11-Branched Alkyl Esters	131298-44-7	10 - 30 Trade Secret *
Water	7732-18-5	10 - 30 Trade Secret *
Zinc Stearate	557-05-1	3 - 7 Trade Secret *
Iron Oxide (FE2O3)	1309-37-1	I - 5 Trade Secret *
Calcium Sulfate	7778-18-9	1 - 5 Trade Secret *
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	9038-95-3	1 - 5 Trade Secret *

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

### **Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

# 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

# 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode. Part of the oxygen for combustion is supplied by the peroxide itself.

### 5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

# SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Eliminate all ignition sources if safe to do so. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store at temperatures not exceeding 32C/90F. Keep cool. Keep only in original container. Store away from other materials. Keep/store away from clothing and other combustible materials.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments	
Iron Oxide (FE2O3)	1309-37-1	Amer Conf of Gov. Indust. Hyg.	TWA(respirable fraction):5 mg/m3		
Iron Oxide (FE2O3)	1309-37-1	US Dept of Labor - OSHA	TWA(as fume):10 mg/m3		
ROUGE	1309-37-1	US Dept of Labor - OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3		
STEARATES	557-05-1	Amer Conf of Gov. Indust. Hyg.	TWA:10 mg/m3		
Zinc Stearate	557-05-1	US Dept of Labor - OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3		
Calcium Sulfate	7778-18-9	Amer Conf of Gov. Indust. Hyg.	TWA(inhalable fraction):10 mg/m3		
Calcium Sulfate	7778-18-9	US Dept of Labor - OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3		
Benzoyl Peroxide	94-36-0	Amer Conf of Gov. Indust. Hyg.	TWA:5 mg/m3		
Benzoyl Peroxide	94-36-0	US Dept of Labor - OSHA	TWA:5 mg/m3		

Amer Conf of Gov. Indust. Hyg.: American Conference of Governmental Industrial Hygienists

American Indust. Hygiene Assoc: American Industrial Hygiene Association

Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines

US Dept of Labor - OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

### 8.2.1. Engineering controls

Provide ventilation adequate to maintain dust concentration below minimum explosive concentrations. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Nitrile Rubber

### Respiratory protection

Wear respiratory protection if ventilation is inadequate to prevent overexposure. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

General Physical Form: Solid Specific Physical Form: Viscous

Odor, Color, Grade: Red paste with slight ester odor

Odor thresholdNo Data AvailablepHNo Data AvailableMelting pointNo Data AvailableBoiling PointNo Data Available

Flash Point 111 °C [Test Method: Estimated]

Evaporation rate No Data Available
Flammability (solid, gas) Organic Peroxide: Type E.

Flammable Limits(LEL)
Flammable Limits(UEL)
Vapor Pressure
Vapor Density
Not Applicable
Not Applicable
Not Applicable
Not Applicable
1,2 g/cm3

### 3MTM Bondo Red Cream Hardener 307, 913, 913M, 913C, 913ES, 928, 928C, 9307, 7653079, 810505D, 510506D, 810507D 02/19/14

Specific Gravity 1.2 [@ 25 °C] [Ref Std: WATER=1]

Solubility in Water Negligible
Solubility- non-water No Data Available
Partition coefficient: n-octanol/ water No Data Available
Autoignition temperature No Data Available
Decomposition temperature No Data Available
Viscosity No Data Available

Hazardous Air Pollutants 0 % weight [Test Method: Calculated]

Volatile Organic Compounds0 lb/gal [Test Method: calculated SCAQMD rule 443.1]Volatile Organic Compounds0 g/l [Test Method: calculated SCAQMD rule 443.1]Volatile Organic Compounds0 % weight [Test Method: calculated per CARB title 2]Percent volatile20 % [Details: Water is the volatile component]VOC Less H2O & Exempt Solvents0 g/l [Test Method: calculated SCAQMD rule 443.1]

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable. Stable unless exposed to heat, flames and drying conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Accelerators

# 10.6. Hazardous decomposition products

SubstanceConditionCarbon monoxideNot SpecifiedCarbon dioxideNot SpecifiedToxic Vapor, Gas, ParticulateNot Specified

# SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

### **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

# **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity** 

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Benzoyl Peroxide	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Benzoyl Peroxide	Inhalation-	Rat	LC50 > 24.3 mg/l
	Dust/Mist		
	(4 hours)		
Benzoyl Peroxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Benzoic Acid, C9-11-Branched Alkyl Esters	Dermal	Rabbit	LD50 > 2,000 mg/kg
Benzoic Acid, C9-11-Branched Alkyl Esters	Inhalation-	Rat	LC50 2 mg/l
	Dust/Mist		
	(4 hours)	<u> </u>	
Benzoic Acid, C9-11-Branched Alkyl Esters	Ingestion	Rat	LD50 > 5,000 mg/kg
Zinc Stearate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Zinc Stearate	Ingestion	Rat	LD50 > 5,000 mg/kg
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Dermal	Rabbit	LD50 > 16,960 mg/kg
Calcium Sulfate	Ingestion	Rat	LD50 > 5,000 mg/kg
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Inhalation-	Rat	LC50 > 5 mg/l
	Dust/Mist		
	(4 hours)	<u> </u>	
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	Rat	LD50 4,240 mg/kg
Iron Oxide (FE2O3)	Dermal	Not	LD50 3,100 mg/kg
		available	
Iron Oxide (FE2O3)	Ingestion	Not	LD50 3,700 mg/kg
		available	

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Benzoyl Peroxide	Rabbit	Minimal irritation
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Rabbit	Minimal irritation
Iron Oxide (FE2O3)	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Benzoyl Peroxide	Rabbit	Severe irritant
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Rabbit	No significant irritation
Iron Oxide (FE2O3)	Rabbit	No significant irritation

### Skin Sensitization

Name	Species	Value
Benzoyl Peroxide	Human	Sensitizing
	and	

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	animal	
Iron Oxide (FE2O3)	Human	Some positive data exist, but the data are not
		sufficient for classification

### Respiratory Sensitization

Name	Species	Value	_
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Germ Cell Mutagenicity

Name	Route	Value
Benzoyl Peroxide	In Vitro	Not mutagenic
Benzoyl Peroxide	In vivo	Not mutagenic
Iron Oxide (FE2O3)	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Benzoyl Peroxide	Ingestion	Multiple	Not carcinogenic
		animal species	
Benzoyl Peroxide	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	Rat	Not carcinogenic
Iron Oxide (FE2O3)	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Benzoyl Peroxide	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Benzoyl Peroxide	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	premating & during gestation
Benzoyl Peroxide	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	premating & during gestation
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	Not toxic to female reproduction	Rat	NOAEL 3,770 mg/kg/day	90 days
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	Not toxic to male reproduction	Rat	NOAEL 3,770 mg/kg/day	90 days
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL I mg/l	2 weeks

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Inhalation	endocrine system   hematopoietic system   liver   nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1 mg/l	2 weeks

Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL .005 mg/l	2 weeks
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL .001 mg/l	2 weeks
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Inhalation	heart	All data are negative	Rat	NOAEL .5 mg/l	2 weeks
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 145 mg/kg/day	90 days
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	hematopoietic system	All data are negative	Rat	NOAEL 500 mg/kg/day	2 years
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	heart   endocrine system   respiratory system	All data are negative	Rat	NOAEL 3,770 mg/kg/day	90 days
Iron Oxide (FE2O3)	Inhalation	pulmonary fibrosis   pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure

**Aspiration Hazard** 

Name Value

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities. This product has been classified on the basis that it is stable as sold. Material may become unstable if allowed to dry out. Classify appropriately before disposal.

# **SECTION 14: Transport Information**

For Transport Information, please visit <a href="http://3M.com/Transportinfo">http://3M.com/Transportinfo</a> or call 1-800-364-3577 or 651-737-6501.

# SECTION 15: Regulatory information

## 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
Zinc Stearate (ZINC COMPOUNDS)	557-05-1	3 - 7
Benzoyl Peroxide	94-36-0	30 - 60

#### 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### SECTION 16: Other information

#### NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 1 Special Hazards: Oxidizer

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

#### HMIS Hazard Classification

Health: 2 Flammability: 1 Physical Hazard: 1 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

 Document Group:
 24-2136-0
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**PRODUCT NAME:** 3M<sup>™</sup> Bondo(r) Home Solutions<sup>™</sup> All Purpose Putty, 20052, 20054

MANUFACTURER:

**DIVISION:** Automotive Aftermarket

ADDRESS: 3M Center

St. Paul, MN 55144-1000

# EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 10/13/09

Supercedes Date: 11/19/08

Document Group: 24-8185-1

#### ID Number(s):

60-4550-5004-1, 70-0080-0307-4, 70-0080-0308-2

This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:

24-6634-0, 24-8194-3

Revision Changes:

Copyright was modified.

Kit: Component document group number(s) was modified.

Page Heading: Product name was modified.

Kit: Product name was modified.

Kit: ID Number Heading was added.

Kit: ID Number(s) was added.

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# MATERIAL SAFETY DATA SHEET 3M™ Bondo(r) Home Solutions™ All Purpose Putty, 20052, 20054 10/13/09

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# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M<sup>TM</sup> Bondo(r) Home Solutions<sup>TM</sup> All Purpose Putty, 20052, 20054 Part A

MANUFACTURER: 3M

**DIVISION:** Automotive Aftermarket

ADDRESS: 3M Center

St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 04/14/10 Supercedes Date: 04/23/09

Document Group: 24-6634-0

Product Use:

Intended Use: Automotive

# SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	<u>% by Wt</u>
LIMESTONE	1317-65-3	15 - 40
Unsaturated Polyester Resin	Trade Secret	15 - 40
STYRENE MONOMER	100-42-5	10 - 30
TALC	14807-96-6	10 - 30
MAGNESIUM CARBONATE	546-93-0	5 - 10
SODIUM SILICATE	1344-09-8	3 - 7
QUATERNARY AMMONIUM COMPOUNDS, BIS(HYDROGENATED	68911-87-5	1 - 5
TALLOW ALKYL)DIMETHYL, SALTS WITH MONTMORILLONITE		
OUARTZ SILICA	14808-60-7	<= 0.49947

# SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste

Odor, Color, Grade: Thick fiberous paste, styrene odor

General Physical Form: Liquid

04/14/10

Immediate health, physical, and environmental hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Contains a chemical or chemicals which can cause cancer. May cause target organ effects.

#### 3.2 POTENTIAL HEALTH EFFECTS

#### **Eve Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Skin Contact:

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Prolonged or repeated exposure may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

May be absorbed following inhalation and cause target organ effects.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

#### Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

#### Prolonged or repeated exposure may cause:

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Immunological Effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and /or respiratory reaction, and changes in immune function.

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

<u>Ingredient</u>	<u>C.A.S. No.</u>	Class Description	Regulation
QUARTZ SILICA	14808-60-7	Grp. 1: Carcinogenic to	International Agency for Research on Cancer
		humans	- ,
QUARTZ SILICA	14808-60-7	Known human carcinogen	National Toxicology Program Carcinogens
STYRENE MONOMER	100-42-5	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

# SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# SECTION 5: FIRE FIGHTING MEASURES

## 5.1 FLAMMABLE PROPERTIES

Autoignition temperature No Data Available

Flash Point 80 °F - 82 °F [Test Method: Closed Cup]
Flash Point 26.67 - 27.78 °C [Test Method: SETAFLASH]

Flammable Limits - LEL

No Data Available
Flammable Limits - UEL

No Data Available

OSHA Flammability Classification: Class IC Flammable Liquid

### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

#### 5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water may be used to blanket the fire. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Accidental Release Measures:

Place in a metal container approved for transportation by appropriate authorities.

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material. Avoid breathing of vapors, mists or spray. Avoid static discharge. Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not breathe vapors. Do not breathe dust. Avoid contact with oxidizing agents.

#### 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed. Store away from oxidizing agents.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in an enclosed process area is recommended. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Do not use in a confined area or areas with little or no air movement.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

Avoid eye contact. Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields Indirect Vented Goggles

### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Polyvinyl Alcohol (PVA)

Polyethylene/Ethylene Vinyl Alcohol

### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not breathe vapors. Do not breathe dust.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Not applicable.

#### 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	Authority	<b>Type</b>	<u>Limit</u>	Additional Information
LIMESTONE	OSHA	TWA, respirable	5 mg/m3	
LIMEGRONIE	00114	fraction	1.7 / 0	
LIMESTONE	OSHA	TWA, as total dust	15 mg/m3	
MAGNESIUM CARBONATE	OSHA	TWA, respirable fraction	5 mg/m3	
MAGNESIUM CARBONATE	OSHA	TWA, as total dust	15 mg/m3	
QUARTZ SILICA	ACGIH	TWA, respirable	0.025 mg/m3	
•		fraction	Ü	
QUARTZ SILICA	OSHA	TWA concentration,	0.1 mg/m3	
		respirable		
QUARTZ SILICA	OSHA	TWA concentration,	0.3 mg/m3	
		as total dust		
STYRENE MONOMER	ACGIH	TWA	20 ppm	
STYRENE MONOMER	ACGIH	STEL	40 ppm	
STYRENE MONOMER	OSHA	TWA	100 ppm	
STYRENE MONOMER	OSHA	CEIL	200 ppm	
TALC	ACGIH	TWA, respirable	2 mg/m3	
		fraction	Ü	
TALC	CMRG	TWA, as respirable	0.5 mg/m3	
		dust	Ŭ	
TALC	OSHA	TWA concentration,	0.1 mg/m3	
		respirable	J	
TALC	OSHA	TWA concentration,	0.3 mg/m3	
		as total dust	J	
TALC	OSHA	TWA	20 millions of	•
			particles/cu. ft.	

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:

Odor, Color, Grade: General Physical Form: Autoignition temperature

Flash Point Flash Point

Flammable Limits - LEL Flammable Limits - UEL

Boiling point Density Density

Vapor Density

Vapor Pressure

Specific Gravity

pН

Melting point

Solubility in Water Evaporation rate

Volatile Organic Compounds

Volatile Organic Compounds

Volatile Organic Compounds

**Volatile Organic Compounds** 

Kow - Oct/Water partition coef

Percent volatile

**VOC Less H2O & Exempt Solvents** 

Paste

Thick fiberous paste, styrene odor

Liquid

No Data Available

80 °F - 82 °F [Test Method: Closed Cup] 26.67 - 27.78 °C [Test Method: SETAFLASH]

No Data Available No Data Available

293.00 °F [Details: CONDITIONS: (Styrene)]

9.5126 lb/gal 1.14 g/ml

No Data Available

5.2 mmHg [Details: CONDITIONS: at 20 C]

1.14

No Data Available No Data Available

Nil

No Data Available

1.54 lb/gal [Test Method: calculated SCAQMD rule 443.1] [Details:

Excluding exempt cmpds]

184.33 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:

Excluding exempt cmpds]

16.17 % [Test Method: calculated SCAQMD rule 443.1] [Details:

Excluding exempt cmpds]

525.57 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:

European VOC Content]
No Data Available

21.03 %

185.03 g/l [Test Method: calculated SCAQMD rule 443.1]

# SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

Strong acids Strong bases

Strong oxidizing agents

Hazardous Polymerization: Hazardous polymerization will not occur.

# **Hazardous Decomposition or By-Products**

Substance

Hydrocarbons
Carbon monoxide
Carbon dioxide
Styrene Oxide
Toxic Vapor, Gas, Particulate

Condition

Not Specified
During Combustion
During Combustion
Not Specified
Not Specified

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

# ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

# SECTION 14:TRANSPORT INFORMATION

LB-K100-0502-9, LB-K100-0534-4

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# **SECTION 15: REGULATORY INFORMATION**

MATERIAL SAFETY DATA SHEET 3MTM Bondo(r) Home SolutionsTM All Purpose Putty, 20052, 20054 Part A 04/14/10

### US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient

STYRENE MONOMER

C.A.S. No

% by Wt

#### STATE REGULATIONS

Contact 3M for more information.

#### **CALIFORNIA PROPOSITION 65**

Ingredient

SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) C.A.S. No.

Classification

\*\*Carcinogen

#### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

#### INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 Flammability: 3 Reactivity: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are

<sup>\*\*</sup> WARNING: contains a chemical which can cause cancer.

presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Reason for Reissue: The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

#### Revision Changes:

Copyright was modified.

Section 8: Eye/face protection information was modified.

Section 8: Skin protection - recommended gloves information was modified.

Section 8: Respiratory protection - recommended respirators information was modified.

Section 9: Property description for optional properties was modified.

Section 2: Ingredient table was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 3: Carcinogenicity table was modified.

Section 15: California proposition 65 ingredient information was modified.

Section 5: OSHA flammability heading was added.

Section 5: OSHA flammability data was added.

Section 10.1 Conditions to avoid heading was added.

Section 10.2 Materials to avoid heading was added.

Section 6: Environmental procedures information was added.

Section 6: Methods for cleaning up information was added.

Section 10: Materials to avoid physical property was added.

Section 10: Conditions to avoid physical property was added.

Section 6: Release measures information was deleted.

Section 10: Materials and conditions to avoid physical property was deleted.

Section 8: Exposure guidelines legend was deleted.

Section 8: Exposure guideline note was deleted.

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# Material Safety Data Sheet

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# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M<sup>TM</sup> Bondo(r) Home Solutions (BHS) White Cream Hardener

**MANUFACTURER: 3M** 

**DIVISION:** Construction and Home Improvement Markets

ADDRESS: 3M Center

St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 08/12/09 **Supercedes Date:** 11/19/08

Document Group: 24-8194-3

**Product Use:** 

Intended Use:

Hardener for Fillers sold to consumers for repair of rotted wood based building materials

such as windows, doors, etc.

### **SECTION 2: INGREDIENTS**

Ingredient	C.A.S. No.	<u>% by Wt</u>
BENZOYL PEROXIDE	94-36-0	30 - 60
WATER	7732-18-5	10 - 30
BENZOIC ACID, C9-11-BRANCHED ALKYL ESTERS	131298-44-7	10 - 20
ZINC STEARATE	557-05-1	3 - 7
OXIRANE, POLYMER WITH METHYLOXIRANE, MONOBUTYL ETHER	9038-95-3	3 - 4
CALCIUM SULFATE	7778-18-9	3 - 4

# SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Viscous

Odor, Color, Grade: Red paste with slight ester odor

General Physical Form: Solid

Immediate health, physical, and environmental hazards: Closed containers exposed to heat from fire may build pressure and explode. Dust clouds of this material in combination with an ignition source may be explosive.

May cause allergic skin

08/12/09

reaction.

#### 3.2 POTENTIAL HEALTH EFFECTS

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Skin Contact:**

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

## Target Organ Effects:

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

# SECTION 4: FIRST AID MEASURES

#### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

#### MATERIAL SAFETY DATA SHEET 3MTM Bondo(r) Home Solutions (BHS) White Cream Hardener 08/12/09

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 FLAMMABLE PROPERTIES

Autoignition temperatureNo Data AvailableFlash PointNot ApplicableFlammable Limits - LELNot ApplicableFlammable Limits - UELNot Applicable

#### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

#### 5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Closed containers exposed to heat from fire may build pressure and explode. Dust clouds of this material in combination with an ignition source may be explosive.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Contain spill. Avoid contact with incompatible materials listed in the Reactivity Data Section. Collect as much of the spilled material as possible using non-sparking tools. Use wet sweeping compound or water to avoid dusting. Sweep up. Clean up residue. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid breathing of dust created by cutting, sanding, grinding or machining. Avoid eye contact with dust or airborne particles.

### 7.2 STORAGE

Store away from heat. Store out of direct sunlight. Keep container tightly closed. Do not heat under confinement to avoid risk of explosion

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ENGINEERING CONTROLS

Provide appropriate local exhaust for cutting, grinding, sanding or machining. Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

# 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles,

#### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Polyethylene/Ethylene Vinyl Alcohol. Use an additional glove (e.g. supported PVC or Nitrile) over the PE/EVAL glove, and change the over-glove frequently.

### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

#### 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	Authority	<b>Type</b>	Limit	Additional Information
BENZOYL PEROXIDE	ACGIH	TWA	5 mg/m3	Table A4
BENZOYL PEROXIDE	OSHA	TWA	5 mg/m3	Table Z-1
CALCIUM SULFATE	ACGIH	TWA, inhalable	10 mg/m3	
		fraction		
CALCIUM SULFATE	OSHA	TWA, respirable	5 mg/m3	Table Z-1
CALCIUM SULFATE	OSHA	TWA, as total dust	15 mg/m3	Table Z-1
STEARATES	ACGIH	TWA, as total dust	10 mg/m3	Table A4
ZINC STEARATE	ACGIH	TWA	10 mg/m3	
ZINC STEARATE	ACGIH	STEL	20 mg/m3	
ZINC STEARATE	OSHA	TWA, respirable	5 mg/m3	Table Z-1
ZINC STEARATE	OSHA	TWA, Vacated, as	10 mg/m3	
		dust	,	
ZINC STEARATE	OSHA	TWA, as total dust	15 mg/m3	Table Z-1

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

#### MATERIAL SAFETY DATA SHEET 3MTM Bondo(r) Home Solutions (BHS) White Cream Hardener 08/12/09

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:

Odor, Color, Grade:

General Physical Form:

Autoignition temperature

Flash Point

Flammable Limits - LEL Flammable Limits - UEL

Boiling point Density

Vapor Density

Vapor Pressure

Specific Gravity

рH

Melting point

Solubility in Water **Evaporation rate** 

Hazardous Air Pollutants Volatile Organic Compounds

Percent volatile

VOC Less H2O & Exempt Solvents

Viscosity

Viscous

Red paste with slight ester odor

Solid

No Data Available Not Applicable Not Applicable Not Applicable

[Details: Decomposes] No Data Available Not Applicable

Not Applicable

1.2 [@ 25 °C] [Ref Std: WATER=1]

No Data Available No Data Available

Negligible Not Applicable 0 % weight

0 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:

excluding exempt compounds]

20 % [Details: Water is the volatile component] 0 g/l [Test Method: calculated SCAQMD rule 443.1]

No Data Available

# SECTION 10: STABILITY AND REACTIVITY

Stability: Stable. Stable unless exposed to heat, flames and drying conditions.

Materials and Conditions to Avoid: Accelerators, dimethylaniline, cobalt napthenate and other promoters, reducing agents, or any hot materials.

Hazardous Polymerization: Hazardous polymerization will not occur.

# Hazardous Decomposition or By-Products

Substance	<u>Condition</u>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Toxic Vapor, Gas, Particulate	Not Specified

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# SECTION 12: ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION

Not determined.

#### CHEMICAL FATE INFORMATION

Not determined.

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate uncured product in a permitted hazardous waste incinerator in the presence of a combustible material.

As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D003 (Reactive)

Since regulations vary, consult applicable regulations or authorities before disposal.

### SECTION 14:TRANSPORT INFORMATION

### ID Number(s):

LB-K100-0534-6, LB-K100-0534-7, LB-K100-0534-8, LB-K100-0534-9, LB-K100-0540-5, 70-0080-0309-0

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# **SECTION 15: REGULATORY INFORMATION**

#### US FEDERAL REGULATIONS

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

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 Ingredient
 C.A.S. No
 % by Western Stranger

 ZINC STEARATE (ZINC COMPOUNDS)
 557-05-1
 3 - 7

 BENZOYL PEROXIDE
 94-36-0
 30 - 60

# STATE REGULATIONS

Contact 3M for more information.

#### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

#### INTERNATIONAL REGULATIONS

Contact 3M for more information.

WHMIS: Hazardous

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 2 Flammability: 2 Reactivity: 1 Special Hazards: Oxidizer

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Section 1: Product name was modified.

Section 1: Division name was modified.

Copyright was modified.

Section 8: Skin protection - recommended gloves information was modified.

Page Heading: Product name was modified.

Section 8: Skin protection comment was added.

08/12/09

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3M MSDSs are available at www.3M.com



Revision Number: 006.1 Issue date: 03/25/2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Loctite Polyseamseal 100% Silicone

IDH number:

1508975

Product type:

Sealant

Item number:

1508975

Restriction of Use:

Silicone

Region:

United States

Company address:

None identified

Contact information:

Telephone: +1 (800) 624-7767

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

MEDICAL EMERGÉNCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

WARNING:

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

### PICTOGRAM(S)



#### **Precautionary Statements**

Prevention:

Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage:

Not prescribed

Disposal:

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS),

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s) CAS Number Percentage\*

IDH number: 1508975

Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10	
Silicon dioxide	7631-86-9	5 - 10	
Substituted Silane	Proprietary	1 - 5	
Titanium dioxide	13463-67-7	1 - 5	
Acetic acid	64-19-7	0.1 - 1	

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Wipe off paste with paper towel or cloth. Wash with soap and water. If skin

irritation persists, call a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. If eye irritation persists, consult a specialist.

Ingestion: Do not induce vomiting. If a person feels unwell or symptoms of skin irritation

appear, consult a physician.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: None

IDH number: 1508975

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Formaldehyde. Oxides of sillcon.

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Store in a partly filled, closed container until disposal. Spilled material will

solidify. Scrape up as much material as possible. Maintain good ventilation for

large spills.

# 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Do not handle contact lenses until

all sealant has been removed from hands. Residual sealant may transfer to

lenses and cause eye irritation.

Storage: Keep container closed. Store in a dry area below 90° F.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Distillates (petroleum), hydrotreated middle	5 mg/m3 TWA Inhalable fraction.	5 mg/m3 PEL Mist.	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction,
Substituted Silane	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust.	None	None
Acetic acid	15 ppm STEL 10 ppm TWA	10 ppm (25 mg/m3) PEL	None	None

Engineering controls: Ensure adequate ventilation, especially in confined areas. Use local ventilation

if general ventilation is insufficient to maintain vapor concentration below

established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Use of Butyl or Nitrile Rubber gloves is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: White
Odor: Acetic acid

Odor threshold: Not available.

pH: Not available.

Vapor pressure: < 10 mm hg (68 °F (20°C))

Boiling point/range:

Melting point/ range:

Specific gravity:

Vapor density:

Flash point:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Not available.

Not available.

Not available.

Not available.

Not available.

4 0 (68°F)

Heavier than air.

> 93 °C (> 199.4 °F)

4 % (acetic acid)

Flammable/Explosive limits - upper:

19.9 % (acetic acid)

Autoignition temperature:

Evaporation rate:

Not available.

Not available.

Solubility in water: Polymerises in presence of water.

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Decomposition temperature:

Not available.

Not available.

Not available.

# 10. STABILITY AND REACTIVITY

Stability:

Stable

Hazardous reactions:

Will not occur.

Hazardous decomposition

products:

Formaldehyde. Oxides of carbon. Oxides of silicon. Acetic acid is liberated slowly upon contact

with moisture.

Incompatible materials:

Bases. Oxidizing agents. Water Acids.

Reactivity:

Not available.

Conditions to avoid:

Prolonged heating at temperatures above 150 °C. Exposure to moisture.

### 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation:

When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit. Acetic acid produced during cure may irritate eyes, nose and throat.

Skin contact:

Causes skin irritation. May cause allergic skin reaction.

Eye contact:

Causes serious eye irritation.

Ingestion:

Not expected to be harmful by ingestion. Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects  Irritant	
Distillates (petroleum), hydrotreated middle	None		
Silicon dioxide	Oral LD50 (RAT) = > 22,500 mg/kg	Nuisance dust	
Substituted Silane	None	Irritant, Allergen	
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity	
Acetic acid	Oral LD50 (RABBIT) = 1,200 mg/kg Oral LD50 (RAT) = 3.53 g/kg Oral LD50 (RAT) = 3.31 g/kg Dermal LD50 (RABBIT) = 1,060 mg/kg Inhalation LC50 (RAT, 4 h) = 11.4 mg/l	Allergen, Corrosive, Eyes, Gastrointestinal, Immune system, Irritant, Kidney	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Distillates (petroleum), hydrotreated middle	No	No	No
Silicon dioxide	No	No	No
Substituted Silane	No	No	No
Titanium dioxide	No	Group 2B	No
Acetic acid	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.