

Revision Date: 08/02/2012

Print Date: 2/27/2015 MSDS Number: R0254499

Version: 4.0

Pyroil™ Multi-Purpose Silicone Lubricant SILICONE SPRAY PYSLS10

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland

Regulatory Information Number

1-800-325-3751

P.O. Box 2219

Telephone

614-790-3333

Columbus, OH 43216

Emergency telephone number

1-800-ASHLAND (1-800-274-

5263)

Product name

PyroilTM Multi-Purpose Silicone Lubricant SILICONE SPRAY

Product code

PYSLS10

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: aerosol, aerosol

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CONTENTS UNDER PRESSURE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

May cause slight skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

Ingestion



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Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions), blood-forming system

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, loss of appetite, Lack of coordination, irregular heartbeat, coma

Target Organs

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., This material (or a component) shortens the timeof onset or worsens the liver and kidney damage induced by other chemicals., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.



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Other information

When heated to temperatures above 150 degrees C in the presence of air, this product can form formaldehyde vapors. Formaldehyde has been identified as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) and the Occupational Safety and Health Administration (OSHA). Formaldehyde is irritating to the eyes, nose, throat, and airways, and can cause an allergic reaction (causes narrowing of the air passages of the lungs, sweating, flushing, hives, rapid heart rate, and lowered blood pressure). In addition, formaldehyde can cause an allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). It is harmful if inhaled, swallowed or absorbed through skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
SOLVENT NAPHTHA (PETROLEUM), LIGHT	64742-89-8	>=50-<60%
ALIPHATIC		
ACETONE	67-64-1	>=40-<50%
CARBON DIOXIDE	124-38-9	>=1.5-<5%
DIMETHYL SILICONES AND SILOXANES	63148-62-9	>=1.5-<5%

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison



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control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO2), Water spray

Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, formaldehyde, Hydrocarbons, organic compounds, silicon oxides

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions



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For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Remove all sources of ignition. Suppress (knock down) gases/vapours/mists with a water spray jet.

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area. Maximum recommended storage temperature 50 degrees C (122 degrees F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

SOLVENT NAPHTHA (PETROLEUM), LIGHT		64742-89-8			
ALIPHATIC					
OSHA Z1	time weighted average	500 ppm			
ACGIH	time weighted average	300 ppm			
OSHA Z1	time weighted average	2,000 mg/m3			
ACGIH	time weighted average	1,370 mg/m3			
ACETONE	to the appearance of	67-64-1			
ACGIH	time weighted average	500 ppm			
ACGIH	Short term exposure limit	750 ppm			
NIOSH	Recommended exposure limit (REL):	250 ppm			



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NIOSH	Recommended exposure limit (REL):	590 mg/m3
OSHA Z1	Permissible exposure limit	1,000 ppm
OSHA Z1	Permissible exposure limit	2,400 mg/m3
ACGIH NIC	time weighted average	200 ppm
ACGIH NIC	Short term exposure limit	500 ppm
CARBON DIOXIDE		124-38-9
ACGIH	time weighted average	5,000 ppm
ACGIH	Short term exposure limit	30,000 ppm
NIOSH	Recommended exposure limit (REL):	5,000 ppm
NIOSH	Recommended exposure limit (REL):	9,000 mg/m3
NIOSH	Short term exposure limit	30,000 ppm
NIOSH	Short term exposure limit	54,000 mg/m3
OSHA Z1	Permissible exposure limit	5,000 ppm
OSHA Z1	Permissible exposure limit	9,000 mg/m3

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear resistant gloves such as:

Nitrile rubber

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Discard gloves that show tears, pinholes, or signs of wear.



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Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	aerosol	
Form	aerosol	
Boiling point/boiling range 133 °F / 56 °C @ 1,013.33 hPa Calculate		
	Transition Liquid/Gas, Value for Component	
Flash point	-4 °F / -20 °C	
	Calculated Flash Point, Value for Component	
Lower explosion limit/Upper explosion limit	2.6 %(V) / 12.8 %(V) Calculated Explosive Limit	
Vapour pressure	308.000 hPa @ 77 °F / 25 °C Calculated Vapor	
	Pressure	
Density	1.078 g/cm3 @ 77 °F / 25 °C	

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Heat, flames and sparks.

Incompatible products

Acids, alkalis, Amines, Ammonia, halogens, peroxides, Reducing agents, Strong oxidizing agents

Hazardous decomposition products

Aldehydes, carbon dioxide and carbon monoxide, formaldehyde, Hydrocarbons, organic compounds, silicon oxides

Hazardous reactions

Product will not undergo hazardous polymerization.



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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity -

: no data available

Product

Acute oral toxicity - Components

SOLVENT NAPHTHA

: LD 50: > 8,000 mg/kg Species: Rat

(PETROLEUM), LIGHT

ALIPHATIC

ACETONE

: LD 50: 5,800 mg/kg Species: Rat

DIMETHYL SILICONES

AND SILOXANES

: LD 50: > 5 g/kg Species: Rat

Acute inhalation toxicity

Acute inhalation toxicity - : no data available

Product

Acute inhalation toxicity - Components

SOLVENT NAPHTHA

: LC 50: 3400 ppm Exposure time: 4 h Species: Rat

(PETROLEUM), LIGHT

ALIPHATIC

ACETONE

: LC 50: > 16000 ppm Exposure time: 4 h Species: Rat

DIMETHYL SILICONES

: LC 50: > 695 mg/m3 Exposure time: 4 h Species: Rat

AND SILOXANES

Method: OECD Test Guideline 403

Acute dermal toxicity

Acute dermal toxicity -

: no data available

Product

Acute dermal toxicity - Components

SOLVENT NAPHTHA

: LD 50: > 4,000 mg/kg Species: Rat

(PETROLEUM), LIGHT

ALIPHATIC

: LD 50: > 20,000 mg/kg Species: Rabbit **ACETONE**



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DIMETHYL SILICONES : LD 50: > 2,000 mg/kg Species: Rabbit

AND SILOXANES

Acute toxicity (other routes of administration)

Acute toxicity (other

: no data available

routes of administration)

12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

DIMETHYL SILICONES : Remarks: Not readily biodegradable.

AND SILOXANES

Bioaccumulation

Bioaccumulation - Product : no data available

Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

ACETONE : LC 50: 4,740 - 6,330 mg/l
Exposure time: 96 h
Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss)
Test Type: static test
LC 50: 8,733 - 9,482 mg/l
Exposure time: 96 h

Species: Fathead minnow (Pimephales promelas)

Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates



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Toxicity to daphnia and	: no data available	
other aquatic invertebrates		
- Product		

Toxicity to algae

Toxicity to algae - : no data available

Product

Toxicity to bacteria

Toxicity to bacteria - : no data available

Product

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT
				5 8	/ LTD. QTY.
U.S. DOT - RC	OAD				
	ORM-D, CONSUMER COMMODITY	ORM			

U.S. DOT - RAIL

ORM-D, CONSUMER	ORM	
COMMODITY		

U.S. DOT - INLAND WATERWAYS



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		ORM-D, CONSUMER COMMODITY	ORM	
ΓRAN	SPORT	CANADA - ROAD		
UN	1950	AEROSOLS	2.1	LIMITED QUANTITY
ΓRAN	SPORT	CANADA - RAIL		
UN	1950	AEROSOLS	2.1	LIMITED QUANTITY
ΓRAN	SPORT	CANADA - INLAND WATE	RWAYS	
UN	1950	AEROSOLS	2.1	LIMITED QUANTITY
INTER	RNATIO	NAL MARITIME DANGER	OUS GOODS	o is a servicin
UN	1950	AEROSOLS	2.1	MARINE
				POLLUTANT:
				(ALIPHATIC
				PETROLEUM
				NAPHTHA)LI
				MITED
		1 2 7 4		QUANTITY
		NAL AIR TRANSPORT ASS		
UN	1950	Aerosols, flammable	2.1	
NTEL	ON A TIO	MAI AID TDANCDODT ACC	OCIATION DACCENCED	1, 3,
UN	1950	NAL AIR TRANSPORT ASS Aerosols, flammable	2.1	
OIV	1930	riciosois, mammadic	2.1	
MEXI WAST		CGULATION FOR THE LAN	D TRANSPORT OF HAZARDO	OUS MATERIALS AND
UN UN	1950	AEROSOLES	2	
		D, CBL = COMBUSTIBLE LIQ	00.2	

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.



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15. REGULATORY INFORMATION

California Prop. 65

Camornia 1105. 00	
 WARNING! This product contains a chemical known to the State	BENZENE
 of California to cause cancer.	
 WARNING! This product contains a chemical known to the State	TOLUENE
of California to cause birth defects or other reproductive harm.	BENZENE

SARA Hazard Classification SARA 311/312 Classification

Acute Health Hazard Fire Hazard Sudden Release of Pressure Hazard

SARA 313 Component(s)

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.

New Jersey RTK Label Information

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8
ACETONE	67-64-1
CARBON DIOXIDE	124-38-9
DIMETHYL SILICONES AND SILOXANES	63148-62-9

Pennsylvania RTK Label Information

	SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8
^	ACETONE	67-64-1
	CARBON DIOXIDE	124-38-9

Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	
Australia. Industrial Chemical (Notification and Assessment)	y (positive listing)
Act	
New Zealand. Inventory of Chemicals (NZIoC), as published	y (positive listing)
by ERMA New Zealand	
Japan. Kashin-Hou Law List	y (positive listing)



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Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear	y (positive listing)
Waste Control Act	
China. Inventory of Existing Chemical Substances	y (positive listing)

Reportable quantity - Product

US. EPA	CERCLA Hazardous Substances	(40 CFR 302)	11944 lbs

Reportable quantity-Components

ACETONE	67-64-1	5000 lbs				
		2 0 0 0 100				

	HMIS	NFPA
Health	2	2
Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard		

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).



SAFETY DATA SHEET

1. Identification

Product identifier Di-Electric Grease

Other means of identification

Product code 02083

Recommended use Lubricating and insulating electrical components

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name

CRC Industries, Inc.

Address

885 Louis Dr. Warminster, PA 18974 US

Telephone

General Information

215-674-4300

Technical

800-521-3168

Assistance

800-272-4620

Customer Service 24-Hour Emergency

800-424-9300 (US)

(CHEMTREC)

703-527-3887 (International)

Website

Health hazards

www.crcindustries.com

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

> Gases under pressure Liquefied gas Skin corrosion/irritation Category 2

Reproductive toxicity (fertility) Category 2 Specific target organ toxicity, single exposure

Category 3 narcotic effects

Specific target organ toxicity, repeated

Category 2

exposure

Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute

Category 2

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Material name: Di-Electric Grease

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. May cause damage to organs (nervous system, upper respiratory tract, eyes, auditory system) through prolonged or repeated exposure. Suspected of damaging fertility. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

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. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Do not breathe gas. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical attention. Collect spillage.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Liquefied Petroleum Gas		68476-86-8	20 - 30
Naphtha (petroleum), hydrotreated light		64742-49-0	10 - 20
2-Methylpentane	A	107-83-5	5 - 10
n-Heptane		142-82-5	5 - 10
3-Methylhexane		589-34-4	3 - 5
Cyclohexane		110-82-7	1 - 3
Methylcyclohexane		108-87-2	1 - 3
n-Hexane		110-54-3	1 - 3

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 Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

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. Aspiration may

cause pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause drowsiness or dizziness. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water spray. Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water.

Special 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.

Fire-fighting equipment/instructions
General fire hazards

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Extremely flammable aerosol.

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. Remove all possible sources of ignition in the surrounding area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Collect spillage. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Do not breathe gas. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

8. Exposure controls/personal protection Occupational exposure limits

US. OSHA Table Z-1 Lim Components		ints (29 CFR 1910.1) /pe		alue	
Cyclohexane (CAS	PE	=1	1/	050 mg/m3	
110-82-7)	F	-L	10	050 mg/m3	
52 .,			30	00 ppm	
Methylcyclohexane (CAS	PE	=1		000 mg/m3	
108-87-2)			2.	oo mgama	
			50	00 ppm	
n-Heptane (CAS 142-82-5) PE	EL		000 mg/m3	
				00 ppm	
n-Hexane (CAS 110-54-3)	PE	EL		300 mg/m3	
				00 ppm	
US. ACGIH Threshold Li	mit Values				
Components		ре	V	alue	
		<u></u>			
2-Methylpentane (CAS	ST	EL	10	000 ppm	
107-83-5)	mark i		722°C		
2 Matheulle aug = - (OAC		VA		00 ppm	
3-Methylhexane (CAS 589-34-4)	SI	EL	50	00 ppm	
000-04-4)	TV	VA	40	00 ppm	
Cyclohexane (CAS		VA VA		00 ppm	
110-82-7)	IV	٧A	10	00 ppm	
Methylcyclohexane (CAS	ST	EL	50	00 ppm	
108-87-2)	0.	7		у рын	
	TV	VA	40	00 ppm	
n-Heptane (CAS 142-82-5) ST	EL		00 ppm	
	TV			00 ppm	
n-Hexane (CAS 110-54-3)) ppm	
US. NIOSH: Pocket Guid				1.1	
Components		pe	Va	alue	
2-Methylpentane (CAS	Ce	iling	1,9	300 mg/m3	
107-83-5)		iii ig	10	noo mg/mo	
			51	0 ppm	
	TV	VA		60 mg/m3	
				00 ppm	
Cyclohexane (CAS	TV	VA		050 mg/m3	
110-82-7)			e filita un oxens	property or a	
			30	0 ppm	
Methylcyclohexane (CAS	TV	VA		00 mg/m3	
108-87-2)					
				0 ppm	
n-Heptane (CAS 142-82-5)) Ce	iling		00 mg/m3	
				0 ppm	
	TV	<i>I</i> A		0 mg/m3	
			85	ppm	
n-Hexane (CAS 110-54-3)	TW	<i>I</i> A	18	0 mg/m3	
			50	ppm	
ogical limit values					
	ire Indices				
HT					
ACGIH Biological Exposu		Determinant	Specimen	Sampling Time	
HT	Value	Determinant 2,5-Hexanedio	Specimen Urine	Sampling Time	

 $\ensuremath{^*}$ - For sampling details, please see the source document.

Material name: Di-Electric Grease
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Exposure guidelines

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

n-Hexane (CAS 110-54-3)

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. 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).

Skin protection

Hand protection

Wear protective gloves such as: Nitrile. Polyvinyl alcohol (PVA). Viton®.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

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

Aerosol.

Color

Translucent. Opaque.

Odor

Solvent

Odor threshold

Not available.

pΗ

Not available.

Melting point/freezing point

-244.7 °F (-153.7 °C) estimated

< 20 °F (< -6.7 °C) Tag Closed Cup

Initial boiling point and boiling

range

118.4 °F (48 °C) estimated

Flash point

Fast.

Evaporation rate

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

1 % estimated

Flammability limit - upper

(%)

8 % estimated

Vapor pressure

1528.1 hPa estimated

Vapor density

> 1 (air = 1)

Relative density

0.66 estimated

Solubility (water)

Negligible.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature

437 °F (225 °C) estimated

Decomposition temperature

Not available.

Viscosity (kinematic)

Not available.

Percent volatile

90.1 %

Material name: Di-Electric Grease

SDS US

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Heat, flames and sparks. Contact with incompatible materials. Conditions to avoid

Strong oxidizing agents. Strong reducing agents. Strong acids. Halogens. Alkalis. Peroxides. Incompatible materials

Hazardous decomposition

products

Carbon oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Inhalation

Prolonged inhalation may be harmful. May cause damage to organs by inhalation.

Causes skin irritation. Skin contact

Direct contact with eyes may cause temporary irritation. Eye contact

May be fatal if swallowed and enters airways. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

May be fatal if swallowed and enters airways. Narcotic effects. Acute toxicity

Test Results Product Species

Di-Electric Grease

Acute

Dermal

LD50 Rabbit 3784 mg/kg estimated

Inhalation

Rat 79 mg/l, 4 Hours estimated LC50

Oral

LD50 Rat 10679 mg/kg estimated

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Not available. Respiratory sensitization

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (nervous system, upper respiratory tract, eyes, auditory system)

through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or Chronic effects

repeated exposure.

Material name: Di-Electric Grease

SDS US

^{*} Estimates for product may be based on additional component data not shown.

Ecotoxicity To		oxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.				
Product		Species		Test Results		
Di-Electric Grease				. 1949		
Aquatic						
Acute						
Fish	LC50	Fish		12.8959 mg/l, 96 hours estimated		
Components		Species		Test Results		
Cyclohexane (CAS 110-82	-7)					
Aquatic						
Fish	LC50	Fathead minnow (Pime	phales promelas)	23.03 - 42.07 mg/l, 96 hours		
Methylcyclohexane (CAS 1	108-87-2)					
Aquatic						
Fish	LC50	Striped bass (Morone s	axatilis)	5.8 mg/l, 96 hours		
n-Heptane (CAS 142-82-5))					
Aquatic						
Acute						
Fish	LC50	Fathead minnow (Pime	phales promelas)	2.1 - 2.98 mg/l, 96 hours		
n-Hexane (CAS 110-54-3)						
Aquatic						
Fish	LC50	Fathead minnow (Pime	phales promelas)	2.101 - 2.981 mg/l, 96 hours		
* Estimates for product ma	v be based on	additional component data n	ot shown			
sistence and degradabilit		s available on the degradabili				
accumulative potential	No data a	•				
Partition coefficient n-oc	tanol / water (log Kow)				
2-Methylpentane	(3.74				
Cyclohexane		3.44				
Methylcyclohexane		3.61 4.66				
n-Heptane n-Hexane		4.66				

^{13.} Disposal considerations

Other adverse effects

Disposal of waste from If discarded, this product is considered a RCRA ignitable waste, D001. Consult authorities before residues / unused products

disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

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 UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82

Material name: Di-Electric Grease

SDS US

Packaging exceptions 306 Packaging non bulk None Packaging bulk None

IATA

UN1950 **UN number**

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not applicable.

Environmental hazards No. **ERG Code**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only

Allowed.

IMDG

UN number UN1950

UN proper shipping name

AEROSOLS, LIMITED QUANTITY

Transport hazard class(es)

Class 2 Subsidiary risk

Packing group Not applicable.

Environmental hazards

Marine pollutant No.

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Cyclohexane (CAS 110-82-7) n-Hexane (CAS 110-54-3)

CERCLA Hazardous Substance List (40 CFR 302.4)

Cyclohexane (CAS 110-82-7) Listed. n-Hexane (CAS 110-54-3) Listed.

CERCLA Hazardous Substances: Reportable quantity

Cyclohexane (CAS 110-82-7) 1000 LBS n-Hexane (CAS 110-54-3) 5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Material name: Di-Electric Grease

Safe Drinking Water Act

Not regulated.

(SDWA)

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Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes

Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Liquefied Petroleum Gas (CAS 68476-86-8)

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-Hexane (CAS 110-54-3)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. New Jersey Worker and Community Right-to-Know Act

2-Methylpentane (CAS 107-83-5)

3-Methylhexane (CAS 589-34-4)

Methylcyclohexane (CAS 108-87-2)

n-Heptane (CAS 142-82-5)

Cyclohexane (CAS 110-82-7)

n-Hexane (CAS 110-54-3)

US. Massachusetts RTK - Substance List

2-Methylpentane (CAS 107-83-5)

3-Methylhexane (CAS 589-34-4)

Cyclohexane (CAS 110-82-7)

Methylcyclohexane (CAS 108-87-2)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Cyclohexane (CAS 110-82-7)

2-Methylpentane (CAS 107-83-5)

3-Methylhexane (CAS 589-34-4)

Methylcyclohexane (CAS 108-87-2)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

US. Rhode Island RTK

Cyclohexane (CAS 110-82-7)

n-Hexane (CAS 110-54-3)

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 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2) Listed: February 27, 1987 Cumene (CAS 98-82-8) Listed: April 6, 2010 Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004 Naphthalene (CAS 91-20-3) Listed: April 19, 2002

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997 Toluene (CAS 108-88-3) Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3) Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

Material name: Di-Electric Grease SDS US

Volatile organic compounds (VOC) regulations

VOC content (40 CFR

90.1 %

51.100(s))

Consumer products

(40 CFR 59, Subpt. C)

Not regulated

State

Consumer products

Not regulated

VOC content (CA)

90.1 %

VOC content (OTC)

90.1 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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

^{*}A "Yes" indicates that all components of this product comply 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	07-16-2015
Revision date	07-22-2015
Prepared by	Allison Cho
Version #	02

02

Further information CRC # 438A-B Health: 2* HMIS® ratings Flammability: 4 Physical hazard: 0 Personal protection: B NFPA ratings Health: 2

Flammability: 4 Instability: 0

NFPA ratings



Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

Material name: Di-Electric Grease 02083 Version #: 02 Revision date: 07-22-2015 Issue date: 07-16-2015











Safety Data Sheet

1 – Product Identifier & Identity for the Chemical

Manufacturer: WD-40 Company Australia

Pty Ltd

Address: 41 Rawson Street

(Level 2, Suite 23)

Epping

NSW, 2121, Australia

Telephone:

Information: +61 2 9868 2200 Emergency only: 1800 024 973

Poisons Information Centre:

Australia: 13 11 26

New Zealand: 0800 764 766

Product Name: WD-40 Bulk Liquid

Chemical Name: Mixture

Product Use: Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces

From Corrosion

Restriction on Use: None Identified

SDS Date Of Preparation: 17 December 2014

HSNO Approval Number: HSR002519

2 - Hazards Identification

Classification of the Hazardous Chemical (in accordance with WHS Regulation)

Health	Environmental	Physical
Aspiration Toxicity Category 1	Aquatic Acute Toxicity	Flammable Liquid Category 3
Eye Irritant Category 2A	Category 3	
Skin Irritant Category 2	Aquatic Chronic Toxicity	9 VV (2) (1) (1) (1) (1) (1) (1) (1) (1)
11.00	Category 3	

Label Elements







Contains: Naphtha (petroleum), hydrodesulfurized heavy; 1,2,4-Trimethyl benzene; 1,3,5-Trimethyl benzene; Xylene, Mixed Isomers; and Surfactant

Danger!

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Prevention

P210 Keep away from heat, sparks, open flames and hot surfaces.-No smoking.

P233 Keep container tightly closed.

P240 Ground or bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating or lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection and face protection.

Response

P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical attention.

P362 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor or physician.

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use water fog, dry chemical, carbon dioxide or foam for extinction.

Storage

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents and container in accordance with local and national regulations.

Other Hazards that do not Result in Classification: None

3 - Composition/Information on Ingredients

Ingredient	CAS#	Weight Percent	Substance Classification
Naphtha (petroleum),	64742-82-1	>60%	Flam. Liq. Cat 3 (H226)
hydrodesulfurized heavy	file is strength and		Asp. Tox. Cat 1 (H304)
Distillates, Hydrotreated Heavy Paraffinic	64742-54-7	10-20%	Not Hazardous
Non-Hazardous Ingredients	Mixture	>10%	Not Hazardous
1,2,4-Trimethyl benzene	95-63-6	<10%	Flam. Liq. Cat 3 (H226) Acute Tox. Cat 4 (H332) Eye Irrit. Cat 2 (H319) Skin Irrit. Cat 2 (H315) STOT SE Cat 3 (H335) Aq. Chronic Cat 2 (H411)
1,3,5-Trimethyl benzene	108-67-8	<10%	Flam. Liq. Cat 3 (H226) STOT SE Cat 3 (H335) Aq. Chronic Cat 2 (H411)
Xylene, Mixed Isomers	1330-20-7	<10%	Flam. Liq. Cat 3 (H226) Acute Tox. Cat 4 (H312) Acute Tox. Cat 4 (H332) Skin Irrit. Cat 2 (H315)
Surfactant	Proprietary	<1	Eye Dam. Cat 1 (H318) Skin Irrit. Cat 2 (H315)

See Section 16 for full text of GHS Classification and H phrases

4 - First Aid Measures

Ingestion (Swallowed): Aspiration Hazard. DO NOT induce vomiting. Call a Poisons Information Center (phone 13 11 26 from anywhere in Australia or 0800 764 766 in New Zealand) immediately.