# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

# Trade name: Non-Flammable Liquid Tire Buffer and Cleaner

(Contd. of page 10)

### · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

### · Date of preparation / last revision 05/13/2015 / 1

### Abbreviations and acronvms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Eye Irrit, 2A: Serious eye damage/eye irritation, Hazard Category 2A

Muta. 2: Germ cell mutagenicity, Hazard Category 2

Carc. 1B: Carcinogenicity, Hazard Category 1B Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 1A: Reproductive toxicity, Hazard Category 1A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

### $^{\star}$ \* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com (877) 204-9106

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29 CFR 1910.1200 (OSHA HazCom 2012)

# **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name

: Valvoline™ TYPE F

**AUTOMATIC TRANSMISSION FLUID** 

### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	,
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	
·	

# **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### Other hazards

None known.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture

: Mixture

Chemical nature

: Defatter

# **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
MINERAL OIL		Not a hazardous substance or mixture.	7.64

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HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Asp. Tox. 1; H304	7.38
METHACRYLATE COPOLYMER		Eye Irrit. 2A; H319	1.52

#### **SECTION 4. FIRST AID MEASURES**

General advice

: No hazards which require special first aid measures.

If inhaled

: If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

If symptoms persist, call a physician.

In case of skin contact

: First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact

: Remove contact lenses.

Protect unharmed eye.

If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

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)

Notes to physician

: No hazards which require special first aid measures.

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# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media

. Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information

: Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

**Environmental precautions** 

: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information

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

# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage

: Electrical installations / working materials must comply with

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the technological safety standards.

Materials to avoid

: No materials to be especially mentioned.

### SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
MINERAL OIL		REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS
		TWA	5 mg/m3 Mist.	TN OEL
		TWA	5 mg/m3 Inhalable fraction.	ACGIH
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS

# **Engineering measures**

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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.

### Personal protective equipment

Respiratory protection

: No personal respiratory protective equipment normally

required.

Eye protection

: Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

: Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

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Hygiene measures

: General industrial hygiene practice.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state

: liquid

Colour

: red

Odour

: hydrocarbon-like

Odour Threshold

: No data available

Hq

: No data available

Melting point/freezing point

: No data available

Boiling point/boiling range

: No data available

Flash point

: > 390 °F / > 199 °C

Method: Cleveland open cup

Evaporation rate

: >1

Ethyl Ether

Flammability (solid, gas)

: No data available

Upper explosion limit

: 6 %(V)

Calculated Explosive Limit Lower explosion limit

: 1%(V)

Vapour pressure

Calculated Explosive Limit

: 0.0133333 hPa (21.11 °C) Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: 0.87 (15.6 °C)

Density

: 0.8750 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

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Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: excessive heat

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Skin contact Eye Contact Ingestion

# **Acute toxicity**

Not classified based on available information.

### Skin corrosion/irritation

Not classified based on available information.

### Product:

Result: Repeated exposure may cause skin dryness or cracking.

### Components:

MINERAL OIL:

Result: Mildly irritating to skin

### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

### METHACRYLATE COPOLYMER:

Result: Not irritating to skin

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Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

MINERAL OIL:

Result: Mildly irritating to eyes

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Mildly irritating to eyes

METHACRYLATE COPOLYMER:

Result: Irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

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.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

**Further information** 

Product:

Remarks: No data available

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.

**OSHA** 

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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

by NTP.

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### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

No data available

Persistence and degradability

No data available

# Bioaccumulative potential

No data available

# Mobility in soil

No data available

### Other adverse effects

No data available

### **Product:**

Additional ecological

information

: No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

General advice

: Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

### **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
		<u> </u>			LTD. QTY.

# U.S. DOT - ROAD

Not dangerous goods	
	the control of the co

# U.S. DOT - RAIL

Not dangerous goods	, .

### **U.S. DOT - INLAND WATERWAYS**

Not dangerous goods	

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FRANSPORT CANADA - ROAD	
Not dangerous goods	
FRANSPORT CANADA - RAIL	
Not dangerous goods	
<u> </u>	
TRANSPORT CANADA - INLAND WATERWAYS	
Not dangerous goods	
NTERNATIONAL MARITIME DANGEROUS GOODS	
Not dangerous goods	
Troc dailigorous goods	
NITERNATIONAL AIR TRANSPORT ACCOUNTS	0.1700
NTERNATIONAL AIR TRANSPORT ASSOCIATION - Not dangerous goods	CARGO
Not darigerous goods	
NTERNATIONAL AIR TRANSPORT ASSOCIATION - Not dangerous goods	PASSENGER
140t darigerous goods	
MEXICAN REGULATION FOR THE LAND TRANSPO WASTES	RT OF HAZARDOUS MATERIALS AND
Not dangerous goods	
*ODM - ODM D CDI COMPLICTIDI E I IOUR	
*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID	
Marine pollutant no	
Dangerous goods descriptions (if indicated above) ma	ay not reflect grantity, and use or region execition
exceptions that can be applied. Consult shipping doc	uments for descriptions that are specific to the
shipment.	
CECTION 45 DECIN ATODY INCODERATION	
SECTION 15. REGULATORY INFORMATION	
0454 044/040 11	
SARA 311/312 Hazards : No SARA Haz	raros
SARA 313 : This material of	does not contain any chemical components with
Component(s)SARA 313 known CAS no	umbers that exceed the threshold (De Minimis)
reporting level	s established by SARA Title III, Section 313.
Pennsylvania Right To Know	
HEAVY PARAFFINIC DISTILLA	TE 64742-54-7 90.00 -
	,

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	MINERAL OIL	Not Assigned	100.00 % 5.00 - 10.00 %
	HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	5.00 - 10.00 %
New Jersey Ri	ight To Know HEAVY PARAFFINIC DISTILLATE	64742-54-7	90.00 - 100.00 %
	MINERAL OIL	Not Assigned	5.00 - 10.00 %
	HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	5.00 - 10.00 %
	METHACRYLATE COPOLYMER	Not Assigned	1.00 - 5.00 %

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

**TSCA** 

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

**AUSTR** 

: On the inventory, or in compliance with the inventory

ENCS

: On the inventory, or in compliance with the inventory

KECL

: On the inventory, or in compliance with the inventory

**PICCS** 

: On the inventory, or in compliance with the inventory

**IECSC** 

: On the inventory, or in compliance with the inventory

# Inventories

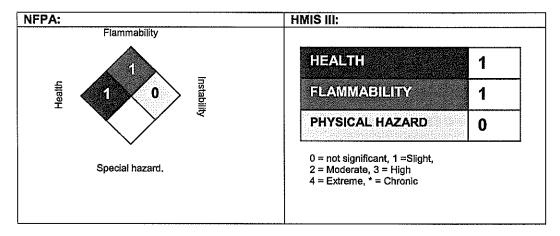
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZioC (New Zealand), PICCS (Philippines), TSCA (USA)

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### **SECTION 16. OTHER INFORMATION**

### Further information

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# NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

# Full text of H-Statements referred to under sections 2 and 3.

H304

May be fatal if swallowed and enters airways.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

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

H-statement : Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit P-Statement: Precautionary Statement PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act HMIRC : Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

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29 CFR 1910.1200 (OSHA HazCom 2012)

# **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product identifier

Trade name

: Valvoline™ CARB & CHOKE CLEANER

**CARB & CHOKE CLEANER** 

#### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet
Ashland
P.O. Box 2219
Columbus, OH 43216
United States of America

Emergency telephone number
1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number
1-800-325-3751

Product Information
614-790-3333

# **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable aerosols

: Category 1

Acute toxicity (Oral)

: Category 4

Acute toxicity (Inhalation)

: Category 4

Acute toxicity (Dermal)

: Category 4

Skin irritation

: Category 2

Eye irritation

- -

Specific target organ

: Category 2A

systemic toxicity - single exposure

: Category 1 (Central nervous system, Eyes)

скрозого

Specific target organ systemic toxicity - single

.

: Category 3 (Respiratory system, Central nervous system)

exposure

Specific target organ systemic toxicity - repeated

exposure

: Category 2 (Auditory system)

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Aspiration hazard

: Category 1

### **GHS Label element**

Hazard pictograms







Signal Word

: Danger

Hazard Statements

: Extremely flammable aerosol.

Harmful if swallowed, in contact with skin or if inhaled.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to organs (Central nervous system, Eyes). May cause damage to organs (Auditory system) through

prolonged or repeated exposure.

### **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.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear eye protection/ face protection.
Wear protective gloves/ protective clothing.

### Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

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

# Storage:

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

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding

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50 °C/ 122 °F.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

# Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Static Accumulator

Chemical nature

: Defatter

# **Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
ACETONE	67-64-1	Flam. Liq. 2; H225	51.80
		Eye Irrit. 2A; H319	
		STOT SE 3; H336	
METHANOL	67-56-1	Flam. Liq. 2; H225	22.07
		Acute Tox. 3; H301	
		Acute Tox. 3; H331	
		Acute Tox, 3; H311	
		STOT SE 1; H370	
XYLENE	1330-20-7	Flam. Liq. 3; H226	20.12
		Acute Tox. 4; H312	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT SE 3; H335, H336	
		Asp. Tox. 1; H304	

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ETHYL BENZENE	100-41-4	Flam. Liq. 2; H225	6.03
		Acute Tox. 4; H332	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280	6.00

# **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical

advice.

Consult a physician after significant exposure.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If swallowed : Obtain medical attention.

Do NOT induce vomiting. Rinse mouth with water.

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Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion.

This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis.

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.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

redness of the skin

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

discomfort in the chest

effects on memory

muscle cramps

pain in the abdomen and lower back

Blurred vision

Shortness of breath

confusion

irregular heartbeat

cyanosis (causes blue coloring of the skin and nails from lack of oxygen)

visual impairment (including blindness)

Harmful if swallowed, in contact with skin or if inhaled

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eve irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs.

May cause damage to organs through prolonged or repeated exposure.

Notes to physician

: No hazards which require special first aid measures.

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### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment,

Water spray

Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Never use welding or cutting torch on or near drum (even

empty) because product (even just residue) can ignite

explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons Aldehydes

Specific extinguishing

methods

.

Product is compatible with standard fire-fighting agents.

Further information

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas. Remove all sources of ignition.

Use personal protective equipment.

Ensure adequate ventilation.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

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respective authorities.

Other information

 Comply with all applicable federal, state, and local regulations.
 Suppress (knock down) gases/vapours/mists with a water spray jet.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Open drum carefully as content may be under pressure. Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Container hazardous when empty.

Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Container may be opened only under exhaust ventilation

hood.

Conditions for safe storage

: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Observe label precautions.

No smoking.

Electrical installations / working materials must comply with

the technological safety standards.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ACETONE	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		REL	250 ppm	NIOSH/GUID

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		. 1	590 mg/m3	E
		PEL	1,000 ppm	OSHA_TRA
			2,400 mg/m3	NS
		TWA	250 ppm	ACGIHLIS_P
	,	STEL	500 ppm	ACGIHLIS P
		TWA	750 ppm	Z1A
			1,800 mg/m3	
		STEL	1,000 ppm	Z1A
			2,400 mg/m3	
METHANOL	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		REL	200 ppm	NIOSH/GUID
			260 mg/m3	E
		STEL	250 ppm	NIOSH/GUID
			325 mg/m3	E
		PEL	200 ppm	OSHA_TRA
			260 mg/m3	NS
		TWA	200 ppm	TN OEL
			260 mg/m3	
		STEL	250 ppm	TN OEL
			325 mg/m3	
XYLENE	1330-20-7	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		PEL	100 ppm	OSHA_TRA
			435 mg/m3	NS
	·	REL	100 ppm	NIOSH/GUID
			435 mg/m3	E
		STEL	150 ppm	NIOSH/GUID
			655 mg/m3	E
ETHYL BENZENE	100-41-4	TWA	20 ppm	ACGIH
		REL	100 ppm	NIOSH/GUID
			435 mg/m3	E
		STEL	125 ppm	NIOSH/GUID
			545 mg/m3	E
		PEL,	100 ppm	OSHA_TRA
			435 mg/m3	NS
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		REL	5,000 ppm	NIOSH/GUID
			9,000 mg/m3	E
		STEL	30,000 ppm	NIOSH/GUID
			54,000 mg/m3	E
		PEL	5,000 ppm	OSHA_TRA
			9,000 mg/m3	NS

# Biological occupational exposure limits

				,		
Components	CAS-No.	Control parameters	Biological specimen	1 .	Permissible concentration	Basis
ACETONE	67-64-1	acetone	Urine	Samplin g time:	50 mg/l	

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Bornello	Nii			End of shift.		
Remarks:	Nonspecific			<b>.</b>		
METHANOL	67-56-1	methanol	Urine	Samplin g time: End of shift,	15 mg/l	
Remarks:		l, Nonspecific				
XYLENE		Methylhippu ric acids	Creatinine in urine	Samplin g time: End of shift.	1.5 g/g	
ETHYL BENZENE	100-41-4	Sum of mandelic acid and phenylglyox ylic acid	Creatinine in urine	Samplin g time: End of shift,	0.15 g/g	ACGIH BEI
Remarks:	Nonspecific					

### Engineering measures

 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.

# Personal protective equipment

Respiratory protection

 In the case of vapour formation use a respirator with an approved filter.

In the case of dust or aerosol formation use respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

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 as appropriate: impervious clothing

Safety shoes

Flame-resistant clothing

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Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.

When using do not eat or drink, When using do not smoke.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : aerosol

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

Boiling point/boiling range

: 133 °F / 56 °C

(1,013.232 hPa)

Calculated Phase Transition Liquid/Gas

Flash point

: -4 °F / -20 °C

Evaporation rate

: No data available

Flammability (solid, gas)

No data available

No data available

Flammability (liquids) : Static Accumulating liquid

Flammability (liquids) Flammability (liquids)

: 36 %(V)

Upper explosion limit

Calculated Explosive Limit

Lower explosion limit : 1 %(V)

Calculated Explosive Limit

Vapour pressure : 307.9692 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.8132 g/cm3 (15.56 °C)

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Solubility(ies)

Water solubility : No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

Heat of combustion

: Estimated 30.0 kJ/g

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid

: Heat, flames and sparks.

excessive heat

Incompatible materials

: Acids
alkalis
aluminum
Amines
Ammonia
halogens
Lead
peroxides
Reducing as

Reducing agents sodium

strong bases

Strong oxidizing agents

Zinc Peroxides

Hazardous decomposition

products

carbon dioxide and carbon monoxide

formaldehyde-like

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Hydrocarbons

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact

Eye Contact Ingestion

**Acute toxicity** 

Harmful if swallowed, in contact with skin or if inhaled

Components: ACETONE:

Acute oral toxicity

: LD 50 (Rat, female): 5,800 mg/kg

Acute inhalation toxicity

: LC 50 (Rat, female): 76 mg/l

Exposure time: 4 h

Acute dermal toxicity

: LD 50 (Rabbit): > 7,426 mg/kg

**METHANOL:** 

Acute oral toxicity

: LD L0 (Human): 300 mg/kg

Assessment: The component/mixture is classified as acute

oral toxicity, category 3.

Acute inhalation toxicity

: LC 50 (Rat): 64000 ppm

Exposure time: 4 h

Assessment: The component/mixture is classified as acute

inhalation toxicity, category 3. Remarks: Slightly toxic by inhalation

Acute dermal toxicity

: LD 50 (Rabbit): 12,800 mg/kg

Assessment: The component/mixture is classified as acute

dermal toxicity, category 3.

XYLENE:

Acute oral toxicity

: LD 50 (Rat): 3,523 - 8,600 mg/kg

Acute inhalation toxicity

: LC 50 (Rat): 6700 ppm Exposure time: 4 h

Test atmosphere: vapour

Acute dermal toxicity

: LD 50 (Rabbit): 1,700 mg/kg

ETHYL BENZENE:

Acute oral toxicity

: LD 50 (Rat): ca. 3,500 mg/kg

Acute inhalation toxicity

: LC50 (Rat): 4000 ppm Exposure time: 4 h Test atmosphere: vapour

生,以为自己的自己的自己的自己的,但是是自己的是一个,但是是一个人,但是不是一个人,但是一个人的,也是是一个人。

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Acute dermal toxicity

: LD 50 (Rabbit): 17,800 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

**Product:** 

Remarks: May cause skin irritation and/or dermatitis.

Result: Repeated exposure may cause skin dryness or cracking.

### Components:

**ACETONE:** 

Result: Mildly irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

METHANOL: Species: Rabbit

Result: Not irritating to skin

XYLENE:

Result: Irritating to skin

ETHYL BENZENE: Result: Irritating to skin

CARBON DIOXIDE:

Result: Not irritating to skin

# Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

# Components:

ACETONE:

Result: Irritating to eyes

METHANOL: Species: Rabbit

Result: Mildly irritating to eyes

XYLENE:

Result: Irritating to eyes

ETHYL BENZENE:

Result: Irritating to eyes

Remarks: Exposure to a concentration of 5000 ppm causes intolerable irritation of the eyes

CARBON DIOXIDE:

Result: Not irritating to eyes

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### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

# Components: METHANOL:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

# 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

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs (Central nervous system, Eyes).

# Components:

ACETONE:

Exposure routes: Inhalation Target Organs: Nervous system

Assessment: May cause drowsiness or dizziness.

#### METHANOL:

Target Organs: Central nervous system, Eyes

Assessment: The substance or mixture is classified as specific target organ toxicant, single

exposure, category 1.

### XYLENE:

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

### STOT - repeated exposure

May cause damage to organs (Auditory system) through prolonged or repeated exposure.

# Components:

ETHYL BENZENE:

Target Organs: Auditory system

Assessment: May cause damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

#### Product:

May be fatal if swallowed and enters airways.

### Components:

#### ACETONE:

May be harmful if swallowed and enters airways.

#### XYLENE:

May be fatal if swallowed and enters airways.

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### ETHYL BENZENE:

May be fatal if swallowed and enters airways.

### **Further information**

### Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

### Components:

METHANOL:

Remarks: Central nervous system

ETHYL BENZENE:

Remarks: Central nervous system

Carcinogenicity:

**IARC** 

Group 2B: Possibly carcinogenic to humans

ETHYL BENZENE

100-41-4

**OSHA** 

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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

by NTP.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

# Components:

ACETONE:

Toxicity to fish

: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus

mykiss)): 4,740 - 6,330 mg/l

Exposure time: 96 h Test Type: static test

LC 50 (Fathead minnow (Pimephales promelas)): 8,733 -

9,482 mg/l

Exposure time: 96 h Test Type: flow-through test

Toxicity to algae

: NOEC (Microcystis aeruginosa): 530 mg/l

Exposure time: 8 d Test Type: static test

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aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 2,112 mg/l

Exposure time: 28 d Test Type: flow-through test

**METHANOL:** 

Toxicity to fish

: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus

mykiss)): 18,000 - 20,000 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test

XYLENE:

Toxicity to fish

: LC 50 (Fathead minnow (Pimephales promelas)): 23.53 -

29.97 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: LC 50 (Water flea (Daphnia magna)): > 100 - < 1,000 mg/l

Exposure time: 24 h Test Type: static test

ETHYL BENZENE:

Toxicity to fish

: LC 50 (Fathead minnow (Pimephales promelas)): 9.1 - 15.6

mg/l

Exposure time: 96 h Test Type: static test

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus

mykiss)): 4.2 mg/l Exposure time: 96 h Test Type: Renewal

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 1.37 - 4.4 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae

(Pseudokirchneriella subcapitata (green algae)): 3.6 mg/l

End point: EC 50 Exposure time: 96 h

Test Type: Growth inhibition

### Persistence and degradability

Components:

ACETONE:

Biodegradability

: Result: Readily biodegradable

Biodegradation: 90.9 % Exposure time: 28 d

Method: OECD Test Guideline 301B

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**METHANOL:** 

Biodegradability

: Biodegradation: 99 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

XYLENE:

Physico-chemical

removability

: Remarks: The product evaporates readily.

ETHYL BENZENE:

Biodegradability

: Result: Readily biodegradable Biodegradation: 70 - 80 %

Exposure time: 28 d

### Bioaccumulative potential

### Components:

ACETONE:

Partition coefficient: n-

octanol/water

: log Pow: -0.24

**METHANOL:** 

Bioaccumulation

: Species: Green algae (Chlorella fusca vacuolata)

Bioconcentration factor (BCF): 28,400

Exposure time: 24 h Concentration: 0.05 mg/l

Method: Static

Partition coefficient: n-

octanol/water

: log Pow: -0.77

XYLENE:

Partition coefficient: n-

octanol/water

: log Pow: 3.16

ETHYL BENZENE:

Partition coefficient: n-

octanoi/water

: log Pow: 3.15

# Mobility in soil

# Components:

No data available

### Other adverse effects

No data available

### **Product:**

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.

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# Components:

# **SECTION 13. DISPOSAL CONSIDERATIONS**

### Disposal methods

General advice

: The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

# **SECTION 14. TRANSPORT INFORMATION**

### International transport regulations

### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

### U.S. DOT - ROAD

U.G. DOT - NOAD		
ORM-D, CONSUMER	ORM	
COMMODITY		

### U.S. DOT - RAIL

ORM-D, CONSUMER COMMODITY	ORM

### **U.S. DOT - INLAND WATERWAYS**

ORM-D, CONSUMER COMMODITY	ORM	

# TRANSPORT CANADA - ROAD

UN	1950	AEROSOLS	2.1

### TRANSPORT CANADA - RAII

UN	1950	AEROSOLS	2.1	

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UN	1950	AEROSOLS	2.1		
	ATIONAL	MARITIME DA	NGEROUS GOODS		
UN	1950	AEROSOLS	2.1		LIMITED QUANTITY
NTERN	ATIONAL	_ AIR TRANSP	ORT ASSOCIATION - C	ARGO	
UN	1950	Aerosols, flan	mable 2.1	J	
			ORT ASSOCIATION - F		
UN	1950	Aerosols, flan	mable 2.1		
UN	1950 N REGU	Aerosols, flan	mable 2.1		RIALS AND

# **SECTION 15. REGULATORY INFORMATION**

# EPCRA - Emergency Planning and Community Right-to-Know Act

# **CERCLA Reportable Quantity**

shipment.

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
XYLENE	1330-20-7	100	496.985781

SARA 311/312 Hazards

: Acute Health Hazard

Fire Hazard

Chronic Health Hazard

SARA 313 Component(s)

**METHANOL** 

67-56-1

22.07 %

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	XYLENE	1330-20-7	20.12 %
	ETHYL BENZENE	100-41-4	6.03 %
Pennsylvania Right To Know ACETONE	1	67-64-1	50.00 - 70.00 %
METHANOL		67-56-1	20.00 - 30.00 %
XYLENE		1330-20-7	20.00 - 30.00 %
ETHYL BENZ	ENE	100-41-4	5.00 - 10.00 %
CARBON DIC	XIDE	124-38-9	5.00 - 10.00 %
New Jersey Right To Know ACETONE		67-64-1	50.00 - 70.00 %
METHANOL		67-56-1	20.00 - 30.00 %
XYLENE		1330-20-7	20.00 - 30.00 %
ETHYL BENZ	ENE	100-41-4	5.00 - 10.00 %
CARBON DIC	OXIDE	124-38-9	5.00 - 10.00 %

California Prop 65

WARNING! This product contains a chemical known to the

State of California to cause cancer. ETHYL BENZENE

100-41-4

BENZENE

71-43-2

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

**METHANOL** 

67-56-1

**TOLUENE** 

108-88-3

**BENZENE** 

71-43-2

The components of this product are reported in the following inventories:

**TSCA** 

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

**AUSTR** 

: On the inventory, or in compliance with the inventory

**NZIOC** 

: On the inventory, or in compliance with the inventory

**ENCS** 

: On the inventory, or in compliance with the inventory

ASHLAND.	Page: 21
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KECL

: On the inventory, or in compliance with the inventory

**PICCS** 

: On the inventory, or in compliance with the inventory

**IECSC** 

: On the inventory, or in compliance with the inventory

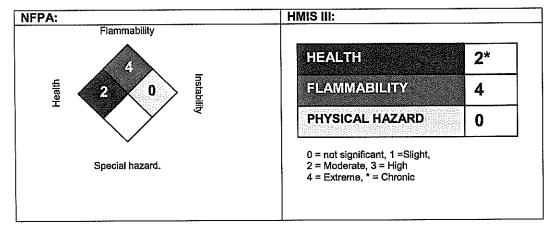
### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

### **SECTION 16. OTHER INFORMATION**

### **Further information**

Revision Date: 05/23/2015



NFPA Flammable and Combustible Liquids Classification Not applicable

Full text of H-Statements referred to under sections 2 and 3.

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H225	Highly flammable liquid and vapor,
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
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.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

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

H-statement : Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.. Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit

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P-Statement : Precautionary Statement

PBT: Persistent, Bioaccumulative and Toxic

PPE : Personal Protective Equipment STEL : Short-term exposure limit STOT : Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

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MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 001

Date Prepared: 10/24/05 Date Printed: 10/02/06

MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: 578-2/578-3 ANTIFREEZE

SAP Material No: NP001

General or Generic ID: GLYCOL Company Telephone Numbers

The Valvoline Company Emergency: 1-800-274-5263

P.O. Box 14000

Lexington, KY 40512 Information: 1-859-357-7206

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s) CAS Number % (by weight)

ETHYLENE GLYCOL 107-21-1 90.0- 90.0
DIETHYLENE GLYCOL 111-46-6 1.0- 10.0
WATER 7732-18-5 1.0- 8.0

DIPOTASSIUM PHOSPHATE 7758-11-4 1.0- 7.0

#### 3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

May cause mild eye irritation.

Skin

May cause mild skin irritation. Although rare, skin contact with ethylene glycol may cause allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). Passage through the skin may add to toxic effects from breathing or swallowing.

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 002

Date Prepared: 10/24/05
Date Printed: 10/02/06
MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

#### Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Breathing of vapor or mist is possible.

Symptoms of Exposure

stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness,

weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, involuntary eye movement, kidney damage.

Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: kidney damage, Overexposure to this material components) has been suggested as a cause of the following effects

in humans, and may aggravate preexisting disorders of these organs: central nervous system effects, liver abnormalities,

kidney damage, liver damage. Developmental Information

Ethylene glycol has caused birth defects in animal studies at high oral doses.

Cancer Information No data Other Health Effects No data

MATERIAL SAFETY DATA SHEET
The Valvoline Company Page 003
Date Prepared: 10/24/05
Date Printed: 10/02/06
MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

Primary Route(s) of Entry Skin absorption.

### 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.

Swallowing

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

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Note to Physicians

This product contains ethylene glycol. Ethanol decreases the

metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively

MATERIAL SAFETY DATA SHEET
The Valvoline Company Page 004

Date Prepared: 10/24/05
Date Printed: 10/02/06

MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

removes ethylene glycol and its metabolites from the body. Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death. The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnia, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis.

5. FIRE FIGHTING MEASURES
Flash Point
250.0 F (121.1 C)
Explosive Limit
(for component) Lower 3.2 Upper 15.3 %
Autoignition Temperature
No data
Hazardous Products of Combustion
May form: carbon dioxide and carbon monoxide, various hydrocarbons.
Fire and Explosion Hazards
Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

MATERIAL SAFETY DATA SHEET The Valvoline Company Page 005 Date Prepared: 10/24/05

Date Printed: 10/02/06

MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

Extinguishing Media

alcohol foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

#### 6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

### 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.

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 006

Date Prepared: 10/24/05 Date Printed: 10/02/06

MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

Storage

Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection

Wear resistant gloves such as: neoprene, nitrile rubber, polyvinyl chloride, To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is

exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure. Engineering Controls Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). Exposure Guidelines Component -----

ETHYLENE GLYCOL (107-21-1)

OSHA VPEL 50.000 ppm - Ceiling ACGIH TLV 100.000 mg/m3 - Ceiling as an aerosol DIETHYLENE GLYCOL (111-46-6) No exposure limits established WATER (7732-18-5) No exposure limits established

MATERIAL SAFETY DATA SHEET The Valvoline Company Page 007

Date Prepared: 10/24/05 Date Printed: 10/02/06 MSDS No: 503.0311762-002.005 578-2/578-3 ANTIFREEZE

DIPOTASSIUM PHOSPHATE (7758-11-4)

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES Boiling Point (for product) 330.0 F (165.5 C) @ 760.00 mmHg Vapor Pressure (for product) 1.800 mmHg @ 68.00 F Specific Vapor Density No data Specific Gravity 1.127 @ 60.00 F Liquid Density 9.388 lbs/gal @ 60.00 F 1.127 kg/l @ 15.60 C Percent Volatiles (Including Water) No data Evaporation Rate No data Appearance No data State

MATERIAL SAFETY DATA SHEET The Valvoline Company Page 008

LIQUID

Date Prepared: 10/24/05
Date Printed: 10/02/06

MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

Physical Form

No data Color No data Odor

No data

рН

10.2 - 11.2

### 10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various

hydrocarbons.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

No data

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 009

Date Prepared: 10/24/05 Date Printed: 10/02/06

MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

## 12. ECOLOGICAL INFORMATION

No data

### 13. DISPOSAL CONSIDERATION

Waste Management Information

Destroy by liquid incineration. Dispose of in accordance with all applicable local, state and federal regulations.

# 14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

\_\_\_\_\_

#### 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this

product are listed.

## MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 010

Date Prepared: 10/24/05 Date Printed: 10/02/06 MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

### CERCLA RQ - 40 CFR 302.4

Component Component

#### ETHYLENE GLYCOL 1

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire() Reactive() Sudden

Release of Pressure()

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s) CAS Number

## ETHYLENE GLYCOL 107-21-1

International Regulations

Inventory Status

 ${\tt DSL}$  (CANADA) The intentional ingredients of this product are

listed.

State and Local Regulations

California Proposition 65

None

New Jersey RTK Label Information

ETHYLENE GLYCOL 107-21-1

Pennsylvania RTK Label Information

1,2-ETHANEDIOL 107-21-1

### MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 011

Date Prepared: 10/24/05 Date Printed: 10/02/06

MSDS No: 503.0311762-002.005

578-2/578-3 ANTIFREEZE

## 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.

MATERIAL SAFETY DATA SHEET The Valvoline Company Page 001

Date Prepared: 10/30/06 Date Printed: 01/02/07

MSDS No: 503.0311762-003.001

578-2/578-3 ANTIFREEZE

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: 578-2/578-3 ANTIFREEZE

SAP Material No: NPO01

General or Generic ID: GLYCOL Company Telephone Numbers

The Valvoline Company Emergency: 1-800-274-5263

P.O. Box 14000

Lexington, KY 40512 Information: 1-859-357-7206

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s) CAS Number % (by weight)

ETHYLENE GLYCOL 107-21-1 90.0- 90.0 DIETHYLENE GLYCOL 111-46-6 1.0- 10.0 WATER 7732-18-5 1.0- 8.0

DIPOTASSIUM PHOSPHATE 7758-11-4 1.0- 7.0

#### 3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation.

May cause mild skin irritation. Although rare, skin contact with ethylene glycol may cause allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 002

Date Prepared: 10/30/06 Date Printed: 01/02/07 MSDS No: 503.0311762-003.001 578-2/578-3 ANTIFREEZE

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Liver, kidney and brain damage in humans has resulted from swallowing lethal or near-lethal amounts of ethylene glycol.

Inhalation

It is possible to breathe this material under certain conditions

of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

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), cough, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, involuntary eye movement, pain in the abdomen and lower back, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), lung edema (fluid buildup in the lung tissue), acute kidney failure (sudden slowing or stopping of urine production), kidney damage, liver damage, convulsions, coma, and death.

Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: reproductive effects, liver damage, central nervous system damage, kidney damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate preexisting disorders of these organs: central nervous system effects, kidney damage, liver damage.

MATERIAL SAFETY DATA SHEET
The Valvoline Company Page 003

Date Prepared: 10/30/06 Date Printed: 01/02/07

MSDS No: 503.0311762-003.001

578-2/578-3 ANTIFREEZE

### Developmental Information

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. Ethylene glycol has caused birth defects in animal studies at high oral doses. Cancer Information

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion.

#### 4. FIRST AID MEASURES

Eves

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.

Swallowing

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

MATERIAL SAFETY DATA SHEET The Valvoline Company Page 004 Date Prepared: 10/30/06 Date Printed: 01/02/07 MSDS No: 503.0311762-003.001 578-2/578-3 ANTIFREEZE

#### 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.

Note to Physicians

This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body. Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death. The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnia, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery to complete anuria with acute tubular necrosis that can lead to

death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions), liver, kidneys, central nervous system, Exposure to this material may aggravate any pre-existing condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

MATERIAL SAFETY DATA SHEET
The Valvoline Company Page 005
Date Prepared: 10/30/06
Date Printed: 01/02/07
MSDS No: 503.0311762-003.001

5. FIRE FIGHTING MEASURES

578-2/578-3 ANTIFREEZE

Flash Point

250.0 F (121.1 C)

Explosive Limit

(for component) Lower 3.2 Upper 15.3 %

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various

hydrocarbons.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Extinguishing Media

alcohol foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

#### 6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 006

Date Prepared: 10/30/06
Date Printed: 01/02/07

MSDS No: 503.0311762-003.001

578-2/578-3 ANTIFREEZE

#### Large Spill

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

### 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

Not applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection

Wear resistant gloves such as: neoprene, nitrile rubber, polyvinyl chloride, To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

MATERIAL SAFETY DATA SHEET The Valvoline Company Page 007 Date Prepared: 10/30/06 Date Printed: 01/02/07 MSDS No: 503.0311762-003.001

Engineering Controls

578-2/578-3 ANTIFREEZE

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

-----

ETHYLENE GLYCOL (107-21-1)
OSHA VPEL 50.000 ppm - Ceiling
ACGIH TLV 100.000 mg/m3 - Ceiling as an aerosol
DIETHYLENE GLYCOL (111-46-6)
No exposure limits established
WATER (7732-18-5)

No exposure limits established DIPOTASSIUM PHOSPHATE (7758-11-4) No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) 330.0 F (165.5 C) @ 760.00 mmHg

Vapor Pressure

(for product) 1.800 mmHg @ 68.00 F

Specific Vapor Density

No data

Specific Gravity

1.127 @ 60.00 F

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 008

Date Prepared: 10/30/06 Date Printed: 01/02/07

MSDS No: 503.0311762-003.001

578-2/578-3 ANTIFREEZE

Liquid Density

9.388 lbs/gal @ 60.00 F

1.127 kg/l @ 15.60 C

Percent Volatiles (Including Water)

No data

Evaporation Rate

No data

Appearance

No data

State

LIQUID

Physical Form

No data

Color

No data

Odor

No data

рН

10.2 - 11.2

### 10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various

hydrocarbons.

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 009

Date Prepared: 10/30/06 Date Printed: 01/02/07

MSDS No: 503.0311762-003.001

#### 578-2/578-3 ANTIFREEZE

Chemical Stability

Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

### 11. TOXICOLOGICAL INFORMATION

No data

#### 12. ECOLOGICAL INFORMATION

No data

#### 13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

#### 14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 010

Date Prepared: 10/30/06 Date Printed: 01/02/07

MSDS No: 503.0311762-003.001

578-2/578-3 ANTIFREEZE

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

\_\_\_\_\_\_

5539 ETHYLENE GLYCOL

# 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this

product are listed.

CERCLA RQ - 40 CFR 302.4

Component Component

ETHYLENE GLYCOL 5000

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

 ${\tt Immediate(X)\ Delayed(X)\ Fire(\ )\ Reactive(\ )\ Sudden}$ 

Release of Pressure()

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s) CAS Number

ETHYLENE GLYCOL 107-21-1

MATERIAL SAFETY DATA SHEET

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Date Prepared: 10/30/06 Date Printed: 01/02/07

MSDS No: 503.0311762-003.001

578-2/578-3 ANTIFREEZE

International Regulations

Inventory Status

DSL (CANADA) The intentional ingredients of this product are

listed.

State and Local Regulations

California Proposition 65

None

New Jersey RTK Label Information

ETHYLENE GLYCOL 107-21-1

Pennsylvania RTK Label Information

1,2-ETHANEDIOL 107-21-1

ETHANOL, 2,2'-OXYBIS- 111-46-6

### 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.

NAPA Antifreeze & Coolant # 1GAL

MATERIAL SAFETY DATA SHEET

Effective Date: 1-21-00 Revision Date: 7-22-02

NAPA Antifreeze & Coolant # 1GAL

Code: OWI Page: 1

Section 1 - Product and Company Identification

PRODUCT NAME: Napa Antifreeze & Coolant # 1GAL

MANUFACTURER'S NAME: EMERGENCY TELEPHONE NUMBER OLD WORLD INDUSTRIES, INC. (800)424-9300 CHEMTREC

4065 Commercial Avenue

Northbrook, IL 60062-1851 MISCELLANEOUS INFORMATION

(847) 559-2000

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Section 2 - Hazardous Ingredients

MATERIAL CAS# % BY WT PEL (OSHA) TLV (ACGIH)

Ethylene Glycol 107-21-1 90-95 50 ppm 50 ppm Diethylene Glycol 111-46-6 0-5 None None Di Potassium Phosphate 7758-11-4 1-2 None None

MATERIAL SAFETY DATA SHEET

Effective Date: 1-21-00 Revision Date: 7-22-02

Napa Antifreeze & Coolant # 1GAL

Code: OWI Page: 2

Section 3 - Hazards Indentification

Slight odor. May be fatal if swallowed. Vapors can cause eye irritation.

LOWEST KNOWN LD50 (ORAL) 107-21-1 5840 mg/kg (Rats)
LOWEST KNOWN LD50 (SKIN) 107-21-1 9530 mg/kg (Rabbits)

HAZARD RATING SYSTEM (NFPA)

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

KEY: 0 - Minimal, 1 - Slight 2. Moderate 3. Serious
4.Severe

Product: Antifreeze/Coolant

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Inhalation, Ingestion, Skin Contact/Absorption, Eye Contact

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely. Vapors or mists may cause eye irritation.

SKIN: Prolonged or repeated exposure not likely to cause significant skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Repeated skin exposure may result in absorption of harmful amounts. Massive contact with damaged skin or of material sufficiently hot to burn skin may result in absorption of potential lethal amounts.

INGESTION: Single dose oral toxicity is considered to be moderate. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing amounts larger than that may cause serious injury, even death.

INHALATION: At room temperature, exposures to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause adverse effects.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Repeated excessive exposures may cause severe kidney and also liver gastrointestinal effects. Signs and symptoms of excessive exposure may be central nervous system effects. Signs

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MATERIAL SAFETY DATA SHEET

Effective Date: 1-21-00 Revision Date: 7-22-02

Napa Antifreeze & Coolant # 1GAL

Code: OWI Page: 3

Section 3 - Hazards Indentification - Continued

and symptoms of excessive exposure may be nausea and/or vomiting. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects. Observations in animals include formation of bladder stones after repeated oral doses of ethylene glycol. Reports of kidney failure and death in burn patients suggest the ethylene glycol may have been a factor. The use of topical applications containing this material may not be appropriate in severely burned patients or individuals with impaired renal function.

CANCER INFORMATION: Based on data from long-term animal studies, ethylene glycol is not believed to pose a carcinogenic risk to man.

TERATOLOGY (birth defects): Exposure to ethylene glycol has caused birth defects in laboratory animals only at doses toxic to the mother.

REPRODUCTIVE EFFECTS: Ethylene glycol has not interfered with reproduction in animal studies except at very high doses.

Section 4 - First Aid Measures

Ensure physician has access to this MSDS.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, lifting lower and upper lids. Get medical attention as soon as possible. Contact lenses should never be worn when working with this chemical.

Skin: Flush area of skin contact immediately with large amounts of water for 15 minutes, while removing contaminated clothing. If irritation persists after flushing, get medical attention promptly. Wash clothing before re-use.

Inhalation: If inhaled, immediately remove victim to fresh air and call emergency medical care. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Obtain medical attention immediately. If patient is fully conscious, give two glasses of water. Do not induce vomiting. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whisky. For children, give proportionally less liquor, according to weight.

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MATERIAL SAFETY DATA SHEET

Effective Date: 1-21-00 Revision Date: 7-22-02

Napa Antifreeze & Coolant # 1GAL

Code: OWI Page: 4

Section 5 - Firefighting Measures

FLAMMABLE PROPERTIES

FLASH POINT: 119/c (247/F) METHOD USED: Setaflash

AUTOIGNITION TEMPERATURE: Autoignition temperature for ethylene glycol is

398/(C748/F).

FLAMMABILITY LIMITS - % of vapor concentration at which product can ignite in presence of spark. Lower Flammability Limit: 3.2%; Upper Flammability Limit: 15.3%.

HAZARDOUS COMBUSTION PRODUCTS: Hazardous combustion products may include and are not limited to carbon monoxide, carbon dioxide and trace amounts of aldehydes and organic acids. When available oxygen is limited, as in a fire or when heated to very high temperatures by a hot wire or plate, carbon monoxide and other hazardous compounds such as aldehydes might be generated.

EXTINGUISHING MEDIA: Water fog or fine spray. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Carbon dioxide. Dry chemical. Do not use direct water stream. May spread fire.

FIRE FIGHTING INSTRUCTIONS: No fire and explosion hazards expected under normal storage and handling conditions (i.e. ambient temperatures). However, ethylene glycol or solutions of ethylene glycol and water can form flammable vapors with air if heated sufficiently. Keep people away. Isolate fire area and deny unnecessary entry.

PROTECT EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots, and gloves).

#### Section 6 - Environmental Release Measures

PROTECT PEOPLE: Material is moderately toxic when ingested. Take adequate precautions to keep people, especially children away from spill site PVC-coated rubber gloves and monogoggles or faceshield can be used during cleanup of spill site.

Protect the environment: Do not dump used product or diluted material into sewers, on the ground, or into any body of water.

CLEANUP: Small spills - soak up with absorbent material. Large spills: Dike and pump into suitable containers for disposal. Ensure compliance with all applicable statues that require notification of appropriate government officials

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MATERIAL SAFETY DATA SHEET

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Napa Antifreeze & Coolant # 1GAL

Code: OWI Page: 5

Section 7 - Handling and Storage

Product on surfaces can cause slippery conditions. Practice reasonable care and cleanliness. Avoid breathing spray mists if generated. Keep out of reach of children. Product may become a solid at temperatures below: -22 C (-8 F). Do not store near food, foodstuffs, drugs or potable water supplies.

Section 8 - Exposure Controls/Personal Protection

Respiratory Respiratory protection is required if airborne concentration exceeds Protection:TLV. At any detectable concentration, any self-contained breathing apparatus with a full facepiece and operated in a pressure-demand or other positive pressure mode or any supplied-air respirator with a full facepiece and operated in a pressure-demand or other positive pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.

Escape: Any air-purifying full facepiece respirator (gas mask) with a chin-style or front or back-mounted organic vapor canister or any appropriate escape-type self contained breathing apparatus.

Skin Protection: Protective gloves recommended when prolonged skin contact can not be avoided. Polyethylene; Neoprene; nitrile; Polyvinyl alcohol; Natural Rubber, Butyl Rubber, Safety shower should be available.

Eye Protection: Safety goggles and face shield. Emergency eyewash should be available. Contact lenses should not be worn when working with this chemical.

Engineering Controls: Use general or local exhaust ventilation to meet TLV

requirements.

Section 9 - Physical and Chemical Properties

Boiling Range: 171 -175 C (339-348F)

Freeze Point: -18C (OF)

Specific Gravity (Water =1 1.12

Pounds/Gallons 9.3

Vapor Pressure (mm Hg) @ 20C <0.1

Vapor Density 2.1

Water Solubility: Complete Evaporation Rate (BuAc=1): Nil % Volatile by Volume: 97.0

Appearance Green

Odor: Mild

MATERIAL SAFETY DATA SHEET

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Napa Antifreeze & Coolant # 1GAL

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Section 10 - Stability and Reactivity

STABILITY: Stable

CONDITIONS TO AVOID: Isolate from oxidizers, heat &

open flame

MATERIALS TO AVOID: Isolate from strong oxidizers

such as permanganates,
chromates & peroxides

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide from

burnina.

HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

Section 11 - Toxicological Information

SKIN: The dermal LD50 hasb not been determined

INGESTION: The lethal dose in humans is estimated to be 100 m (3 ounces). The oral LD50 for rats is in the  $6000 \ 13,000 \ \text{mg/kg}$  range.

MUTAGENICITY (THE EFFECTS ON GENETIC MATERIAL): In vitro mutagenicity studies were negative. Animal mutagenicity studies were negative

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MATERIAL SAFETY DATA SHEET

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Napa Antifreeze & Coolant # 1GAL

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Section 12 - Ecological Information

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: Bioconcentration potential is low (BCF less than 100 or Log Kow less than 3). Log octanol/water partition coefficient (log Know) is 1.36. Henry's Law Constant (H) is 6.0E-08 arm-m3/mol. Bioconcentration factor (BCF) is 10 in golden orfe.

DEGRADATION & TRANSFORMATION: Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD GREATER THAN 40%). 5-Day biochemical oxygen demand (BOD5) is 0.78p/p. 10-Day biochemical oxygen demand (BOD20) is  $1.06\ p/p$ . 20-Day biochemical oxygen demand (BOD20) is  $1.15\ p/p$ . Theoretical oxygen demand (ThOD) is calculated to be  $1.29\ p/p$ . Biodegradation may occur under both aerobic and anaerobic conditions (in either the presence or absence of oxygen). Inhibitory concentration (IC50) in OECD " Activated Sludge, Respiration Inhibition Test" (Guideline # 209) is <  $1000\ mg/L$ . Degradation is expected in the atmospheric environment within days to weeks.

ECOTOXICOLOGY: Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species). Acute LC50 for fathead minnow (Pimephales promelas) is 51000 mg/L. Acute LC 50 for bluegil (Lepomis macrochirus) is 27549 mg/L. Acute LC50 for rainbow trout (Oncorhynchus mykiss) is about 18000-46000 mg/L. Acute LC50 for guppy (Poecilia reticulata ) is 49300 mg/L. Acute LC50 for water flea (Daphnia magna) is 46300-51100 mg/L. Acute LC50 for the cladoceran Ceriodaphnia dubia is 10000-25800 mg/L. Acute LC50 for crayfish is 91430 mg/L. Acute LC50 for brine shrimp (Artemia salina ) is 20000 mg/L. Acute LCC 50 for golden orfe (Leueiscus idus) is greater than 10000 mg/L. Acute LC50 for goldfish (Carassius auratus) is greater than 5000 mg/L.

Growth inhibition EC50 for green alga Selenastrum capricornutum is 9500-13000 mg/L.

Section 13 - Disposal Considerations

DO NOT discharge to sewer. Wear appropriate personal protection. Take up with sand, vermiculite, or similar inert material. Dispose in accordance wilth federal, state and local regulations.

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Napa Antifreeze & Coolant # 1GAL

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Section 14 - Transport Information

US DOT Ethylene Glycol

NON-BULK

Proper Shipping Name: Environmentally Hazardous Material

Liquid N.O.S. (Ethylene Glycol) BULK Proper Shippinng Name: Ethylene Glycol

UN3082

9

PG III

Technical Name: 5,000 lb.

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Section 15 - Regulatory Information

THIS PRODUCT CONTAINS COMPONENT(S) CITED ON THE FOLLOWING REGULATIONS.

CHEMICAL NAME CAS NUMBER

Ethylene Glycol 107-21-1

UNITED STATES

TSCA - Inventory: Listed

WATER STANDARDS: No data available

ATMOSPHERIC Clean Air Act (1990) - List of Hazardous Air

Contaminants: listed

STANDARDS:

CERCLA: Reportable Quantity (RQ): 5,000 pounds (532 gallons)

SARA Title III: Section 311/312 - Categories: Acute hazard; chronic

hazard

Section 312 - Inventory Reporting: Ethylene glycol is subject to Tier I and/or Tier II annual inventory

reporting.

Section 313 - Emission Reporting: Ethylene glycol is subject to Form R reporting requirements.

Section 302 - Extremely Hazardous Substances: Ethylene glycol is = not listed.

STATE RIGHT-TO-KNOW:

California - Exposure Limits - Ceilings: vapor-50 ppm ceiling; 125 mg/m3

ceiling

Director's List of Hazardous Substances: listed Florida - Hazardous Substances List: listed

Massachusetts - Right-To-Know List: listed

Minnesota - Haz. Subs. List: listed (particulate and vapor)

New Jersey - Right-To-Know List (Total): Present greater than 1.0%

Pennsylvania Right-To-Know List: environmental hazard

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required.

WHMIS INFORMATION: D2A - material has potential toxic effects. Refer elsewhere in the MSDS for the specific warnings and safe handling information. Refer to the employer's workplace education program.

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Section 16 - Other Information

California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer: Component CAS # Amount 1,4-Dioxane 123-91-1 <=0.0086% Acetaldehyde 75-07-0 <=0.1000ppm

This contains the following chemical known to the State of California to cause birth defects and/or other reproductive harm.

Component CAS # Amount

Ethylene glycol monomethyl ether

109-86-4 <=0,0009%

California SCAQMD Rule 443.1 (South Coast Air Quality Management District Rule 443.1, Labeling of Materials Containing Organic Solvents)

Contact: Thomas Cholke Phone: (847) 559-2000

Old World Industries, Inc. makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, Inc. as the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, Inc. assume liability arising out of the use by others of this product referred to herein. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process

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| Valvoline™ FUEL INJECTOR CLEANER | Version: 1.0              |
| 602378                           |                           |

29 CFR 1910.1200 (OSHA HazCom 2012)

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Valvoline™ FUEL INJECTOR

CLEANER

### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data Emergency telephone number

sheet

Ashland P.O. Box 2219

Columbus, OH 43216

United States of America

1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number 1-800-325-3751

**Product Information** 

614-790-3333

EHS Customer Requests@ashland.com

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids

: Category 3

Skin irritation

: Category 2

Specific target organ

systemic toxicity - single

exposure

: Category 3 (Central nervous system)

Aspiration hazard

: Category 1

**GHS Label element** 

Hazard pictograms



Signal Word

: Danger

**Hazard Statements** 

Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

**Precautionary Statements** 

: Prevention:

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

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

#### Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

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

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

## Storage:

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

Store in a well-ventilated place. Keep cool.

Store locked up.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Defatter

#### Hazardous components

| Chemical Name | CAS-No.   | Classification      | Concentration (%)                       |
|---------------|-----------|---------------------|-----------------------------------------|
| KEROSENE      | 8008-20-6 | Flam. Liq. 3; H226  | 97.22                                   |
|               |           |                     |                                         |
|               |           | Skin Irrit. 2; H315 |                                         |
|               |           | STOT OF 2, U226     |                                         |
|               |           | STOT SE 3; H336     |                                         |
|               |           | Asp. Tox. 1; H304   | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 |
|               |           |                     |                                         |

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### **SECTION 4. FIRST AID MEASURES**

General advice

: Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled

: Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

Consult a physician after significant exposure.

In case of skin contact

: Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

If on clothes, remove clothes.

In case of eye contact

: Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed

: Obtain medical attention.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

id

 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.

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)

Lung irritation confusion

irregular heartbeat

Convulsions

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

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Notes to physician

: No hazards which require special first aid measures.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Never use welding or cutting torch on or near drum (even

empty) because product (even just residue) can ignite

explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Aldehydes

carbon dioxide and carbon monoxide

Hydrocarbons

Nitrogen oxides (NOx)

sulfur oxides

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Evacuate personnel to safe areas.

Remove all sources of ignition. Use personal protective equipment.

Ensure adequate ventilation.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: 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).

Other information

 Comply with all applicable federal, state, and local regulations.
 Suppress (knock down) gases/vapours/mists with a water spray jet.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Open drum carefully as content may be under pressure.

Avoid formation of aerosol.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Container hazardous when empty.

Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

No smoking.

Electrical installations / working materials must comply with

the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components | CAS-No. | Value type | Control      | Basis |
|------------|---------|------------|--------------|-------|
|            |         | (Form of   | parameters / |       |

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|          |           | exposure) | Permissible concentration                                      |                 |
|----------|-----------|-----------|----------------------------------------------------------------|-----------------|
| KEROSENE | 8008-20-6 | TWA       | 200 mg/m3<br>Non-aerosol<br>(as total<br>hydrocarbon<br>vapor) | ACGIH           |
|          |           | REL       | 100 mg/m3                                                      | NIOSH/GUID<br>E |

### **Engineering measures**

 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.

#### Personal protective equipment

Respiratory protection

: In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection

: Not required under normal conditions of use. Wear splashproof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

: Wear as appropriate:

impervious clothing

Safety shoes

Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state

: liquid

Colour

: amber

Odour

: pungent

Odour Threshold

: No data available

рΗ

: No data available

: No data available

Boiling point/boiling range

: 347 °F / 175 °C

Flash point

Calculated Phase Transition Liquid/Gas

: 120.00 °F / 48.89 °C Calculated Flash Point

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

Upper explosion limit

: 5 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit

: 0.7 %(V)

GLP: Calculated Explosive Limit

Vapour pressure

: 0.63994 hPa (20 °C)

Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.8023 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

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Oxidizing properties : No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

excessive heat

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons Nitrogen oxides (NOx) Sulphur oxides

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Skin contact Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components: KEROSENE:

Acute oral toxicity

: LD 50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : LC 50 (Rat): > 5.28 mg/l

Exposure time: 4 h Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: Not classified as acutely toxic by inhalation

under GHS.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

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#### Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Result: Repeated exposure may cause skin dryness or cracking.

### Components:

KEROSENE:

Result: Irritating to skin

### Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

#### Components:

KEROSENE:

Result: Slightly irritating to eyes

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

# 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

May cause drowsiness or dizziness.

# Components:

KEROSENE:

Assessment: May cause drowsiness or dizziness.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Product:

May be fatal if swallowed and enters airways.

## Components:

KEROSENE:

May be fatal if swallowed and enters airways.

#### Further information

# **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

## Components:

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KEROSENE: Remarks: Skin

Remarks: Central nervous system

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.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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

by NTP.

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

# Components:

KEROSENE:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l

Exposure time: 96 h Test Type: semi-static test Test substance: WAF

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Water flea (Daphnia magna)): 1.4 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae

: EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3

mg/l

Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

(Water flea (Daphnia magna)): 0.89 mg/l

Exposure time: 21 d

End point: Reproduction Test Test Type: semi-static test Test substance: WAF

Method: OECD Test Guideline 211

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#### Persistence and degradability

#### Components:

KEROSENE:

Biodegradability

: Biodegradation: 58.6 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

#### Bioaccumulative potential

#### Components:

No data available

#### Mobility in soil

### Components:

No data available

#### Other adverse effects

No data available

#### Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

### Components:

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

General advice

: The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

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.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

International transport regulations

REGULATION

| ASHLAND.                |                                |              |                      | Page: 12                                |                                           |            |                          |  |
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|                         | LINESTOD OLEA                  | NED          |                      | SDS Number                              |                                           |            |                          |  |
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|                         |                                |              | _                    |                                         |                                           |            |                          |  |
| ID NUMBER               | PROPER SHIPPI                  | NG NAME      | *HAZAI               |                                         | SUBSIDIARY                                | PACKING    | MARINE                   |  |
|                         | CL                             |              | CLASS                |                                         | HAZARDS                                   | GROUP      | POLLUTANT /<br>LTD. QTY. |  |
| MEXICAN REG             | ULATION FOR TH                 | FIAND TRA    | NSPORT               | r OF F                                  | IAZARDOUS MA                              | TERIALS AN | •                        |  |
| WASTES                  |                                |              |                      |                                         | TACARDOOD INA                             | TENIALO AN |                          |  |
| UN 1993                 | Not dangerous go               | ods          | 3                    |                                         |                                           |            |                          |  |
| ж                       |                                |              |                      |                                         |                                           |            |                          |  |
| NTERNATIONAL<br>UN 1993 | AIR TRANSPORT Not dangerous go |              | <u>ION - PA</u><br>3 | SSEN                                    | GER                                       |            |                          |  |
| 011 1990                | Not dangerous go               | ,0us         | <u> </u>             |                                         | PW-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- |            |                          |  |
| JEDNIATIONAL            | AID TO ANCOOR                  | . ACCOCIATI  | ION 04               | D00                                     |                                           |            |                          |  |
| UN 1993                 | AIR TRANSPORT Not dangerous go | ******       | <u>10N - CA</u><br>3 | RGO                                     |                                           |            |                          |  |
|                         |                                |              |                      |                                         |                                           |            |                          |  |
| MTERMATION A            | _ MARITIME DANG                | EDONE CO     | nne                  |                                         |                                           |            |                          |  |
| UN 1993                 | Not dangerous go               |              | 3                    |                                         |                                           |            |                          |  |
|                         |                                |              |                      | *************************************** |                                           |            |                          |  |
| RANSPORT CA             | NADA - INLAND W                | /ATERWAYS    | :                    |                                         |                                           |            |                          |  |
|                         | Not dangerous go               |              |                      |                                         |                                           |            |                          |  |
|                         |                                |              |                      |                                         |                                           |            |                          |  |
| RANSPORT CA             | NADA - RAIL                    |              |                      |                                         |                                           |            |                          |  |
|                         | Not dangerous go               | ods          |                      |                                         |                                           |            |                          |  |
|                         |                                |              |                      |                                         |                                           | ·          |                          |  |
| RANSPORT CA             |                                |              |                      |                                         |                                           |            |                          |  |
|                         | FLAMMABLE LIC                  | UID, N.O.S.  |                      |                                         |                                           |            | LIMITED                  |  |
|                         |                                | ·····        |                      |                                         |                                           |            | QUANTITY                 |  |
| LC DOT INI A            | UD IA/ATEDIA/AVO               |              |                      |                                         |                                           |            |                          |  |
| J.S. DOT - INLA         | ND WATERWAYS Flammable liquid, | nos          |                      |                                         |                                           | 111        |                          |  |
|                         |                                |              | -                    |                                         | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   |            | •                        |  |
| J.S. DOT - RAIL         |                                |              |                      |                                         |                                           |            |                          |  |
| 7.0. DOT * RAIL         | Flammable liquid,              | n.o.s.       |                      |                                         |                                           | III        |                          |  |
|                         |                                |              |                      |                                         |                                           |            |                          |  |
|                         |                                |              |                      |                                         |                                           |            |                          |  |
| J.S. DOT - ROAI         | J.S. DOT - ROAD                |              |                      |                                         |                                           |            |                          |  |
| J.S. DOT - ROAI         | LIQUIDO INFLAN                 | MABLE, N.E.F | ٠.                   |                                         |                                           | Ш          |                          |  |
| J.S. DOT - ROAI         |                                | ABLE, N.E.F  | ) <u>.</u>           |                                         |                                           | III        |                          |  |
|                         |                                |              | ) <u> </u>           |                                         |                                           |            |                          |  |
|                         | LIQUIDO INFLAM                 |              |                      |                                         |                                           | III        |                          |  |

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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.

#### **SECTION 15. REGULATORY INFORMATION**

### EPCRA - Emergency Planning and Community Right-to-Know Act

### **CERCLA Reportable Quantity**

| Components  | CAS-No. | Component RQ | Calculated product RQ |
|-------------|---------|--------------|-----------------------|
|             |         | (lbs)        | (lbs)                 |
| NAPHTHALENE | 91-20-3 | 100          | 214132.762313         |

SARA 311/312 Hazards

: Fire Hazard

Acute Health 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.

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

**AUSTR** 

: On the inventory, or in compliance with the inventory

**ENCS** 

: Not in compliance with the inventory

**KECL** 

: On the inventory, or in compliance with the inventory

**PICCS** 

: On the inventory, or in compliance with the inventory

IECSC

: On the inventory, or in compliance with the inventory

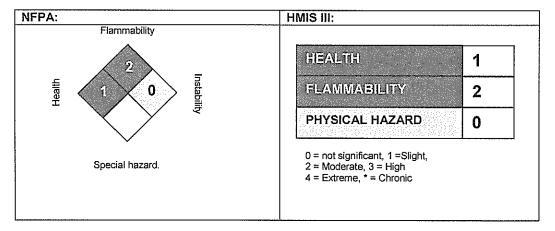
### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

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#### **SECTION 16. OTHER INFORMATION**

Further information Revision Date: 05/22/2015



# NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class II

### Full text of H-Statements referred to under sections 2 and 3.

| H226 | Flammable liquid and vapor.                   |
|------|-----------------------------------------------|
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation.                       |
| H336 | May cause drowsiness or dizzîness.            |

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

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

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H-statement: Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

**OEL**: Occupational Exposure Limit P-Statement : Precautionary Statement PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

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|--|--|---------|
|  |  | الهمد . |



Material Name: Hess 5W30 Motor Oil

SDS No. 9683 US GHS

Synonyms: Valvoline Product Code 52670453

## \* \* \* Section 1 - Product and Company Identification \* \* \*

### **Manufacturer Information**

Hess Corporation 1 Hess Plaza Woodbridge, NJ 07095-0961 Phone: 732-750-6000 Corporate EHS Emergency # 800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

## \* \* \* Section 2 - Hazards Identification \* \* \*

### **GHS Classification:**

Skin Corrosion/Irritation – Category 2 Specific Target Organ Toxicity – Category 3 (narcosis) Carcinogenicity - Category 1B

### **GHS LABEL ELEMENTS**

### Symbol(s)



### Signal Word

WARNING

#### **Hazard Statements**

Causes skin irritation.

May cause cancer.

May cause drowsiness or dizziness.

#### **Precautionary Statements**

#### Prevention

Wash hands and forearms thoroughly after handling.

Wear protective gloves/protective clothing/eye protection.

Obtain special instructions before use.

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

Avoid breathing fume/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

#### Response

If on skin: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

If exposed or concerned: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep in a position comfortable for breathing. Call poison center or doctor if you feel unwell.

Material Name: Hess 5W30 Motor Oil

#### Storage

Store locked up.

Store in a well-ventilated place.

Keep container tightly closed.

### Disposal

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

## \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

| CAS#       | Component                                               | Percent |
|------------|---------------------------------------------------------|---------|
| 64742-65-0 | Petroleum distillates, solvent dewaxed heavy paraffinic | 83-93   |

Petroleum-based lubricating oil with detergent/dispersant engine oil package with zinc compounds.

## \* \* \* Section 4 - First Aid Measures \* \* \*

### First Aid: Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is visual difficulty, seek medical attention.

### First Aid: Skin

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

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

### First Aid: Inhalation

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

#### First Aid: Notes to Physician

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration hazard. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

## \* \* \* Section 5 - Fire Fighting Measures \* \* \*

### **General Fire Hazards**

See Section 9 for Flammability Properties.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. No special fire hazards are known to be associated with this product. Dense smoke may be generated while burning.

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|-------------|-----------------------|

Material Name: Hess 5W30 Motor Oil

#### Hazardous Combustion Products

May form: carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorous, various hydrocarbons.

### **Extinguishing Media**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

### **Unsuitable Extinguishing Media**

None

### Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

### \* \* \* Section 6 - Accidental Release Measures \* \* \*

### **Recovery and Neutralization**

Carefully contain and stop the source of the spill, if safe to do so.

### Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

SMALL SPILL: Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

LARGE SPILL: Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify authorities as required, that a spill has occurred. Persons not wearing proper personal protective equipment should be excluded from area of spill until clean-up has been completed.

### **Emergency Measures**

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

#### Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Material Name: Hess 5W30 Motor Oil

### **Environmental Precautions**

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

### **Prevention of Secondary Hazards**

None

## \* \* \* Section 7 - Handling and Storage \* \* \*

### **Handling Procedures**

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents.

### **Storage Procedures**

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

### Incompatibilities

Avoid contact with: acids, halogens, strong oxidizing agents.

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

### **Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

### **Engineering Measures**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

### Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Material Name: Hess 5W30 Motor Oil

### Personal Protective Equipment: Hands

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product.

### Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

### Personal Protective Equipment: Skin and Body

To prevent repeated or prolonged skin contact, wear impervious clothing and boots. Wear normal work clothing covering arms and legs.

### **Hygiene Measures**

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

## Section 9 - Physical & Chemical Properties

Appearance: Dry, clear and bright

Odor: None Physical State: Liquid pH: ND Vapor Pressure: ND Vapor Density: ND

Boiling Point: >425 °F (218.3°C) @ 760.00 Melting Point:

mmHg

Solubility (H2O): Negligible Specific Gravity: 0.876 @ 60°F (16°C)

Slower than ethyl ether Evaporation Rate: VOC: ND

Viscosity: <= 3300.0 cps @ -25°C; 10.5 -Octanol/H2O Coeff.: ND

11.2 cst @ 100°C

Flash Point: 410 °F (210.0 °C) Flash Point Method: COC

Upper Flammability Limit Lower Flammability Limit ND

(UFL): (LFL): Burning Rate: ND Auto Ignition: ND

## Section 10 - Chemical Stability & Reactivity Information

### **Chemical Stability**

This is a stable material.

#### **Hazardous Reaction Potential**

Will not occur.

### Conditions to Avoid

None

### **Incompatible Products**

Avoid contact with: acids, halogens, strong oxidizing agents.

#### **Hazardous Decomposition Products**

May form: aldehydes, carbon dioxide and carbon monoxide, hydrogen sulfide, oxides of sulfur, nitrogen and phosphorus, toxic fumes, various hydrocarbons.

Material Name: Hess 5W30 Motor Oil

## \* \* \* Section 11 - Toxicological Information \* \* \*

### **Acute Toxicity**

#### A: General Product Information

Harmful if large amounts are swallowed.

### B: Component Analysis - LD50/LC50

### Petroleum distillates, solvent dewaxed heavy paraffinic (64742-65-0)

Inhalation LC50 Rat >4.7 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

### Potential Health Effects: Skin Corrosion Property/Stimulativeness

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms include redness, burning, drying and cracking of the skin, and skin burns. Additional symptoms of skin contact include: acne. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

### Potential Health Effects: Eye Critical Damage/ Stimulativeness

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

### Potential Health Effects: Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

#### Potential Health Effects: Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

#### Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

### **Generative Cell Mutagenicity**

This product is not reported to have any mutagenic effects.

#### Carcinogenicity

### A: General Product Information

May cause cancer.

Used motor oil has been shown to cause skin cancer in laboratory animal continually exposed by repeated applications.

### **B:** Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

### Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

### Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

### Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

Material Name: Hess 5W30 Motor Oil

### **Aspiration Respiratory Organs Hazard**

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration hazard.

\* \* \* Section 12 - Ecological Information \* \* \*

### **Ecotoxicity**

### A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Petroleum distillates, solvent dewaxed heavy paraffinic (64742-65-0)

**Test & Species** 

Conditions

96 Hr LC50 Oncorhynchus mykiss 48 Hr EC50 Daphnia magna >5000 mg/L >1000 mg/L

## Persistence/Degradability

No information available.

### **Bioaccumulation**

No information available.

### Mobility in Soil

No information available.

\* \* \* Section 13 - Disposal Considerations \* \* \*

### Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

### Disposal of Contaminated Containers or Packaging

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

\* \* \* Section 14 - Transportation Information \* \* \*

### **DOT** Information

Shipping Name: Not Regulated

\* \* \* Section 15 - Regulatory Information \* \* \*

### **Regulatory Information**

#### Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

### SARA Section 311/312 - Hazard Classes

Acute Health

Chronic Health

Fire Sudden Release of Pressure

Reactive

### **SARA SECTION 313 - SUPPLIER NOTIFICATION**

ZINC C1-C14 ALKYLDITHIOPHOSPHATE (CAS No. 68649-42-3)

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Material Name: Hess 5W30 Motor Oil

State Regulations

### Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

### Additional Regulatory Information

### Component Analysis - Inventory

| Component                                    | CAS#       | TSCA | CAN | EEC     |
|----------------------------------------------|------------|------|-----|---------|
| Petroleum distillates, solvent dewaxed heavy | 64742-65-0 | Yes  | DSL | EINEC\$ |
| paraffinic                                   |            |      |     |         |

## \* \* \* Section 16 - Other Information \* \* \*

**NFPA® Hazard Rating** 

Health

1

Fire 1

Reactivity

Ô

**HMIS® Hazard Rating** 

Health

1\* Slight

Fire

1 Slight

Physical

0 Minimal

\*Chronic

### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

#### Literature References

None

#### Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

|  | ٠. | 0.100 |      |      |      |
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End of Sheet

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| 874905                                                                                                                         |                           |

29 CFR 1910.1200 (OSHA HazCom 2012)

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product identifier

Trade name

: Valvoline™ Maxlife™ SAE 10W30 HIGH MILEAGE MOTOR OIL

™ Trademark, Ashland or its subsidiaries, registered in

various countries

#### Recommended use of the chemical and restrictions on use

| Details of the supplier of the safety data | Emergency telephone number     |
|--------------------------------------------|--------------------------------|
| sheet                                      | 1-800-ASHLAND (1-800-274-5263) |
| Ashland                                    |                                |
| P.O. Box 2219                              | Regulatory Information Number  |
| Columbus, OH 43216                         | 1-800-325-3751                 |
| United States of America                   |                                |
|                                            | Product Information            |
|                                            | 614-790-3333                   |
| EHS Customer Requests@ashland.com          |                                |
|                                            |                                |

### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Defatter

### Hazardous components

| Chemical Name    | CAS-No.    | Classification    | Concentration (%) |
|------------------|------------|-------------------|-------------------|
| HEAVY PARAFFINIC | 64742-54-7 | ASD. TOX. 1; H3U4 | 12.18             |

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| DISTILLATE                      |                                          |      |
|---------------------------------|------------------------------------------|------|
| ZINC DIALKYL<br>DITHIOPHOSPHATE | Aquatic Acute 2; H401 Aquatic Chronic 2; | 1.08 |
|                                 | H411<br>                                 |      |

#### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary

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Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

acne

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Notes to physician

: No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Further information

: Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information

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

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### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

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

### Components with workplace control parameters

Engineering measures : 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.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear as appropriate:

impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

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### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state

: liquid

Colour

: amber

Odour

: mild

Odour Threshold

: No data available

рΗ

: No data available

Melting point/freezing point

: No data available

Boiling point/boiling range

: > 424 °F / > 218 °C

(1013 hPa)

Flash point

: > 390 °F / > 199 °C

Method: Cleveland open cup

Evaporation rate

: <1

Flammability (solid, gas)

: No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: < 1.0 mmHg (20 °C)

Relative vapour density

: > 1AIR=1

Relative density

: No data available

Density

: 0.8687 g/cm3 (15.6 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

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Viscosity, kinematic

: ca. 70 mm2/s (40 °C)

Oxidizing properties

: No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

**HEAVY PARAFFINIC DISTILLATE:** 

Acute oral toxicity : LD 50 (Rat): > 15 g/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5 g/kg

ZINC DIALKYL DITHIOPHOSPHATE:

Acute oral toxicity : LD 50 (Rat): > 2,000 - 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Mildly irritating to skin

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Result: Repeated exposure may cause skin dryness or cracking.

#### Components:

HEAVY PARAFFINIC DISTILLATE:

Result: Mildly irritating to skin

ZINC DIALKYL DITHIOPHOSPHATE:

Result: Irritating to skin

#### Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: Slightly irritating to eyes

Remarks: Expected based on components.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

#### Components:

**HEAVY PARAFFINIC DISTILLATE:** 

Result: Not irritating to eyes

#### ZINC DIALKYL DITHIOPHOSPHATE:

Result: Possibly irritating to eyes

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### 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.

### Product:

No aspiration toxicity classification

#### Components:

#### **HEAVY PARAFFINIC DISTILLATE:**

May be fatal if swallowed and enters airways.

#### **Further information**

Product:

Remarks: No data available

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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.

**OSHA** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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

by NTP.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

### Components:

**HEAVY PARAFFINIC DISTILLATE:** 

Toxicity to fish : LL50 (Fish): > 100 mg/l

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10,000 mg/l

Toxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Aquatic invertebrates): 10 mg/l

ZINC DIALKYL DITHIOPHOSPHATE:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### Persistence and degradability

#### Components:

No data available

### Bioaccumulative potential

#### Components:

No data available

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Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

### Components:

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

General advice

: Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

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**

### International transport regulations

REGULATION

| 1120021111011 |                      | •       |            |         |             |
|---------------|----------------------|---------|------------|---------|-------------|
| ID NUMBER     | PROPER SHIPPING NAME | *HAZARD | SUBSIDIARY | PACKING | MARINE      |
|               |                      | CLASS   | HAZARDS    | GROUP   | POLLUTANT / |
|               |                      |         |            |         | LTD, QTY.   |

### U.S. DOT - ROAD

| Not dangerous goods |  |
|---------------------|--|
|                     |  |

### U.S. DOT - RAIL

| Not dangerous goods |  |
|---------------------|--|
|                     |  |

### U.S. DOT - INLAND WATERWAYS

Not dangerous goods

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| MOTOR OIL                              |                                       |                                                    |
| ™ Trademark, Ashland or its sub        | sidiaries, registered                 |                                                    |
| in various countries                   |                                       |                                                    |
| 874905                                 |                                       |                                                    |
|                                        |                                       |                                                    |
|                                        |                                       |                                                    |
| TRANSPORT CANADA - ROAD                |                                       |                                                    |
| Not dangerous                          |                                       |                                                    |
|                                        |                                       |                                                    |
|                                        |                                       |                                                    |
| TRANSPORT CANADA - RAIL  Not dangerous | , acada                               | · · · · · · · · · · · · · · · · · · ·              |
| Not dangerous                          | , goods                               |                                                    |
|                                        |                                       | 1.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4            |
| TRANSPORT CANADA - INLANI              |                                       |                                                    |
| Not dangerous                          | goods                                 |                                                    |
|                                        |                                       |                                                    |
| INTERNATIONAL MARITIME DA              | NGEROUS GOODS                         |                                                    |
| Not dangerous                          | goods                                 |                                                    |
|                                        |                                       |                                                    |
| INTERNATIONAL AIR TRANSPO              | IRT ASSOCIATION -                     | CARGO                                              |
| Not dangerous                          |                                       | OAROO                                              |
|                                        |                                       |                                                    |
|                                        |                                       |                                                    |
| INTERNATIONAL AIR TRANSPO              |                                       | PASSENGER                                          |
| Not dangerous                          | goods                                 |                                                    |
|                                        |                                       |                                                    |
|                                        | HE LAND TRANSPOR                      | RT OF HAZARDOUS MATERIALS AND                      |
| WASTES Not dangerous                   | - acada                               |                                                    |
| Not dangerous                          | s goods                               |                                                    |
|                                        |                                       |                                                    |
| *ORM = ORM-D, CBL = COMBU              | STIBLE LIQUID                         |                                                    |
| Marine pollutant                       | no                                    |                                                    |
| Iwanine politicant                     | 110                                   |                                                    |
| t                                      |                                       |                                                    |
|                                        |                                       | y not reflect quantity, end-use or region-specific |
|                                        | Consult shipping docu                 | uments for descriptions that are specific to the   |
| shipment.                              |                                       |                                                    |
|                                        | _                                     |                                                    |
| SECTION 15. REGULATORY I               | NFORMATION                            |                                                    |
|                                        | · · · · · · · · · · · · · · · · · · · |                                                    |
|                                        |                                       |                                                    |
| SARA 311/312 Hazards                   | : No SARA Haz                         | arde                                               |
| SANA STIISTZ MAZAROS                   | . NO SARA HAZ                         | aius                                               |
| SARA 313 Component(s)                  |                                       |                                                    |
| . , ,                                  |                                       |                                                    |
|                                        |                                       |                                                    |

| ASHLAND.                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page: 11                  |
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| SAFETY DATA SHEET                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Revision Date: 06/02/2015 |
|                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Print Date: 5/20/2016     |
|                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SDS Number: R0355563      |
| Valvoline™ Maxlife™ SAE 10W30 HIGH MILEAGE<br>MOTOR OIL<br>™ Trademark, Ashland or its subsidiaries, registered<br>in various countries<br>874905 | Annual superior super | Version: 1.2              |

ZINC DIALKYL 1.08 % 68649-42-3 **DITHIOPHOSPHATE PHOSPHORODITHIOIC** 84605-29-8 0.53 % ACID, MIXED 0,0-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS Pennsylvania Right To Know HEAVY PARAFFINIC DISTILLATE 50.00 - 70.00 % 64742-54-7 HYDROTREATED HEAVY PARAFFINIC 64742-54-7 10.00 - 20.00 % BASE OIL HEAVY PARAFFINIC DISTILLATE 64742-54-7 10.00 - 20.00 % LUBRICANT ADDITIVE Not Assigned 5.00 - 10.00 % New Jersey Right To Know HEAVY PARAFFINIC DISTILLATE 50.00 - 70.00 % 64742-54-7 HYDROTREATED HEAVY PARAFFINIC 64742-54-7 10.00 - 20.00 % BASE OIL HEAVY PARAFFINIC DISTILLATE 64742-54-7 10.00 - 20.00 % LUBRICANT ADDITIVE Not Assigned 5.00 - 10.00 % ZINC DIALKYL DITHIOPHOSPHATE 68649-42-3 1.00 - 5.00 % DINONYL DIPHENYLAMINE 1.00 - 5.00 % 36878-20-3

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

**TSCA** 

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

**AUSTR** 

: Not in compliance with the inventory

**ENCS** 

: Contact your sales representative for additional information.

KEÇL

: On the inventory, or in compliance with the inventory

**PICCS** 

: On the inventory, or in compliance with the inventory

**IECSC** 

: q (quantity restricted)

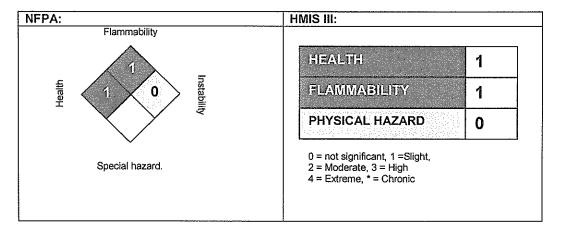
Inventories

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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### Further information Revision Date: 06/02/2015



# NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

#### Full text of H-Statements referred to under sections 2 and 3.

| H303 | May be harmful if swallowed.                  |
|------|-----------------------------------------------|
| H304 | May be fatal if swallowed and enters airways. |
| H313 | May be harmful in contact with skin.          |
| H315 | Causes skin irritation                        |

#### **Further information**

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

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| Valvoline™ Maxlife™ SAE 10W30 HIGH MILEAGE<br>MOTOR OIL<br>™ Trademark, Ashland or its subsidiaries, registered<br>in various countries<br>874905 | Version: 1.2              |

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

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

H-statement : Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit P-Statement : Precautionary Statement PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

|  | , | • |
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|  |   |   |
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| ASHLAND.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Page: 1                   |
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| and the second s | SDS Number: 000000193596  |
| NEXTGEN MAXLIFE SAE 10W-30 MOTOR OIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Version: 1.0              |
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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

Trade name

: NEXTGEN MAXLIFE SAE 10W-30

MOTOR OIL

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet

Ashland

P.O. Box 2219

Columbus, OH 43216

United States of America

EHS Customer Requests@ashland.com

Emergency telephone number

1-800-ASHLAND (1-800-274-5263)

Valvoline Typeden gave me this

Regulatory Information Number

1-800-325-3751

**Product Information** 

614-790-3333

#### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Defatter

### Hazardous components

| Chemical Name                                 | CAS-No.    | Classification                        | Concentration (%) |
|-----------------------------------------------|------------|---------------------------------------|-------------------|
| RESIDUAL OILS (PETROLEUM),<br>SOLVENT-DEWAXED | 64742-62-7 | Not a hazardous substance or mixture. | 7.82              |
| ZINC DIALKYL                                  | 68649-42-3 | Skin Irrit. 2; H315                   | 1.08              |

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|                           |

| DITHIOPHOSPHATE | Aquatic Acute 2; H4        | 01 |
|-----------------|----------------------------|----|
|                 | Aquatic Chronic 2;<br>H411 |    |
|                 |                            |    |

#### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

.

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)

Dizziness

Notes to physician : No hazards which require special first aid measures.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

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Dry chemical

Unsuitable extinguishing media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing methods

Product is compatible with standard fire-fighting agents.

Further information

: Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information

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

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

Electrical installations / working materials must comply with

the technological safety standards.

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

### Components with workplace control parameters

| Components                                        | CAS-No.    | Value type<br>(Form of<br>exposure) | Control parameters / Permissible concentration | Basis           |
|---------------------------------------------------|------------|-------------------------------------|------------------------------------------------|-----------------|
| RESIDUAL OILS<br>(PETROLEUM), SOLVENT-<br>DEWAXED | 64742-62-7 | PEL                                 | 500 ppm<br>2,000 mg/m3                         | OSHA_TRA<br>NS  |
| ****                                              |            | REL                                 | 5 mg/m3<br>Mist.                               | NIOSH/GUID<br>E |
|                                                   |            | STEL                                | 10 mg/m3<br>Mist.                              | NIOSH/GUID<br>E |
|                                                   |            | PEL                                 | 5 mg/m3<br>Mist.                               | OSHA_TRA<br>NS  |

Engineering measures

: 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.

### Personal protective equipment

Hand protection

Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection

: Not required under normal conditions of use. Wear splashproof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

: Wear as appropriate:

impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state

: liquid

Odour

: No data available

Odour Threshold

: No data available

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рΗ

: No data available

Melting point/freezing point

: No data available

Boiling point/boiling range

: 599 °F / 315 °C

Flash point

Calculated Phase Transition Liquid/Gas

: > 390 °F / > 199 °C

Method: Cleveland open cup

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

Upper explosion limit

: 7 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit

: 0.9 %(V)

GLP: Calculated Explosive Limit

Vapour pressure

: 0.1333333 hPa (20 °C) Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.867 g/cm3 (20 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

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Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED: Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

LD 50 (Rat): > 5 g/kg

Acute inhalation toxicity

: LC50 (Rat): > 5.58 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation

under GHS.

Remarks: No mortality observed at this dose.

Acute dermal toxicity

: LD 50 (Rabbit): > 5,000 mg/kg

Remarks: No mortality observed at this dose.

LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

ZINC DIALKYL DITHIOPHOSPHATE:

Acute oral toxicity : LD 50 (Rat): > 2,000 - 5,000 mg/kg

Acute dermal toxicity

: LD 50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

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RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Species: Rabbit

Result: Not irritating to skin

ZINC DIALKYL DITHIOPHOSPHATE:

Result: Irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: Slightly irritating to eyes

Remarks: Expected based on components.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Species: Rabbit

Result: Not irritating to eyes

ZINC DIALKYL DITHIOPHOSPHATE: Result: Possibly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Test Type: Buehler Test Species: Guinea pig

Assessment: Does not cause skin sensitisation.

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.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

No aspiration toxicity classification

**Further information** 

Product:

Remarks: No data available

Carcinogenicity:

**IARC** 

Group 1: Carcinogenic to humans

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RESIDUAL

OILS

64742-62-7

(PETROLEUM), SOLVENT-

**DEWAXED** 

**OSHA** 

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP

Known to be human carcinogen

RESIDUAL

OILS

64742-62-7

(PETROLEUM), SOLVENT-

**DEWAXED** 

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Toxicity to fish

: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae

: NOEL (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >=

1,000 mg/l

Exposure time: 14 d

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

NOEL (Daphnia (water flea)): 10 mg/l

Exposure time: 21 d Test substance: WAF

Method: OECD Test Guideline 211

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ZINC DIALKYL DITHIOPHOSPHATE:

Ecotoxicology Assessment

Acute aquatic toxicity

: Toxic to aquatic life.

Chronic aquatic toxicity

: Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED:

Biodegradability

: Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

No data available

Mobility in soil

Components:

No data available

Other adverse effects

No data available

**Product:** 

Additional ecological

information

: No data available

Components:

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

General advice

: Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

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.

| 451                  | HAND                             | ) <sub>0</sub> |          |              |            | Page: 10                               |
|----------------------|----------------------------------|----------------|----------|--------------|------------|----------------------------------------|
| SAFETY DA            | ATA SHEET                        | <u> </u>       |          |              | Revision   | Date: 05/22/2015                       |
|                      |                                  |                |          |              |            | int Date: 6/1/2015                     |
| NEXTGEN MAX          | (LIFE SAE 10W-30 MOTOR OIL       |                |          |              | SDS Numbe  | er: 000000193596<br>Version: 1.0       |
|                      |                                  | '              |          |              |            | VOISION. 1.0                           |
| 822724               |                                  |                | <u> </u> |              |            |                                        |
|                      |                                  |                |          |              |            |                                        |
| SECTION 14. T        | RANSPORT INFORMATION             |                |          |              |            |                                        |
| International fr     |                                  |                |          |              |            |                                        |
|                      | ansport regulations              |                |          |              |            |                                        |
| REGULATION ID NUMBER | PROPER SHIPPING NAME             | l *HAZAF       | RD       | SUBSIDIARY   | PACKING    | MARINE                                 |
|                      |                                  | CLASS          |          | HAZARD\$     | GROUP      | POLLUTANT /<br>LTD. QTY.               |
| MEXICAN REG          | SULATION FOR THE LAND TRA        | NSPORT         | OF I     | HAZARDOUS MA | TERIALS AN | D                                      |
| WASILS               | Not dangerous goods              |                |          |              |            |                                        |
|                      |                                  |                |          |              |            |                                        |
| NTERNATIONAL         | L AIR TRANSPORT ASSOCIAT         | ION - PAS      | SSEN     | GER          |            |                                        |
| 7.2                  | Not dangerous goods              |                |          |              | •          |                                        |
|                      |                                  |                |          |              |            | 1.70,110,000                           |
| NTERNATIONAL         | AIR TRANSPORT ASSOCIAT           | ION - CAI      | RGO      |              |            |                                        |
|                      | Not dangerous goods              |                |          |              |            | ······································ |
| NTERNATIONAL         | L MARITIME DANGEROUS GO          | ons            |          |              |            |                                        |
|                      | Not dangerous goods              |                |          |              |            |                                        |
|                      | V                                |                |          |              |            |                                        |
| TRANSPORT CA         | NADA - INLAND WATERWAYS          | S              |          |              |            |                                        |
|                      | Not dangerous goods              |                |          |              |            |                                        |
|                      |                                  |                |          |              |            |                                        |
| TRANSPORT CA         | NADA - RAIL  Not dangerous goods |                |          |              |            |                                        |
|                      | Not dangerous goods              |                |          |              |            |                                        |
| TD A NODODT OA       | MADA BOAD                        |                |          |              |            |                                        |
| TRANSPORT CA         | Not dangerous goods              |                |          |              |            |                                        |
|                      |                                  |                |          |              |            |                                        |
| US DOT-INI A         | ND WATERWAYS                     |                |          |              |            |                                        |
|                      | Not dangerous goods              |                |          |              |            |                                        |
|                      |                                  |                |          |              |            |                                        |
| U.S. DOT - RAIL      |                                  |                |          |              |            |                                        |
|                      | Not dangerous goods              |                |          |              |            |                                        |
|                      |                                  |                |          |              | ····       |                                        |
| U.S. DOT - ROAI      | D                                |                |          |              |            |                                        |
|                      | Not dangerous goods              |                | ·····    |              |            |                                        |
|                      |                                  |                |          |              |            |                                        |

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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| 822724                               |                           |

| 1                                     |     |      |
|---------------------------------------|-----|------|
| Marine pollutant                      | . ! | l no |
| · · · · · · · · · · · · · · · · · · · | . 1 | 117  |
|                                       | i 1 |      |

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.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards

: No SARA Hazards

SARA 313 Component(s)

ZINC DIALKYL

68649-42-3

1.08 %

DITHIOPHOSPHATE

PHOSPHORODITHIOIC

84605-29-8

0.53 %

ACID, MIXED 0,0-

DISM 2 DIMETING D

BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS,

ZINC SALTS

Pennsylvania Right To Know

HEAVY PARAFFINIC DISTILLATE

64742-54-7

70.00 - 90.00 %

LUBRICANT ADDITIVE

Not Assigned

5.00 - 10.00 %

RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED

64742-62-7

5.00 - 10.00 %

New Jersey Right To Know

HEAVY PARAFFINIC DISTILLATE

64742-54-7

70.00 - 90.00 %

LUBRICANT ADDITIVE

Not Assigned

5.00 - 10.00 %

RESIDUAL OILS (PETROLEUM),

ZINC DIALKYL DITHIOPHOSPHATE

64742-62-7

5.00 - 10.00 %

SOLVENT-DEWAXED

1.00 - 5.00 %

DINONYL DIPHENYLAMINE

68649-42-3 36878-20-3

1.00 - 5.00 %

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

**TSCA** 

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

**AUSTR** 

: Not in compliance with the inventory

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**ENCS** 

: Contact your sales representative for additional information.

KECL

: On the inventory, or in compliance with the inventory

**PICCS** 

: On the inventory, or in compliance with the inventory

**IECSC** 

: q (quantity restricted)

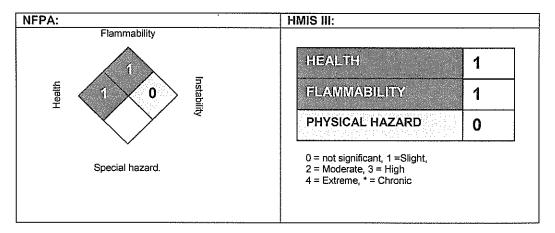
#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 05/22/2015



#### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

#### Full text of H-Statements referred to under sections 2 and 3.

H315

Causes skin irritation.

H401

Toxic to aquatic life.

H411

Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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|                                      | SDS Number: 000000193596  |
| NEXTGEN MAXLIFE SAE 10W-30 MOTOR OIL | Version: 1.0              |
| 822724                               |                           |

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

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

H-statement : Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment STEL : Short-term exposure limit STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value TWA : Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

|  |  |  | ~ ) |
|--|--|--|-----|
|  |  |  |     |
|  |  |  |     |
|  |  |  |     |



# SAFETY DATA SHEET

1. Identification

Product identifier MERCON® V Automatic Transmission and Power Steering Fluid

Other means of identification

FIR No. 184629

Recommended use Fill for automatic transmissions and power steering systems requiring MERCON V® fluid

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company Name

Ford Motor Company

Address

Attention: MSDS Information, P.O. Box 1899

Dearborn, Michigan 48121

USA

Telephone

1-800-392-3673

**MSDS** Information

1-800-448-2063

msds@brownart.com

**Emergency telephone** 

numbers

Poison Control Center: USA and Canada: 1-800-959-3673 INFOTRAC (Transportation): USA and Canada 1-800-535-5053

2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**Environmental 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

May cause irritation of respiratory tract. May irritate eyes and skin. May cause an allergic skin

classified (HNOC)

reaction.

Supplemental information

None.

#### 3. Composition/information on ingredients

#### Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

#### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin 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

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Rinse mouth. Get medical attention if symptoms occur. If ingestion of a large amount does occur,

call a poison control center immediately.

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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.

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

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. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Specific methods

equipment/instructions

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. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors or mists. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

The product is immiscible with water and will spread on the water surface.

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

Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Observe good industrial hygiene practices. See Section 8 of the SDS for Personal Protective Equipment.

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

No exposure limits noted for ingredient(s).

Biological limit values

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended

exposure limits/quidelines.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Suitable chemical protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Nitrile gloves are

recommended.

Other

Wear suitable protective clothing. Wear appropriate chemical resistant clothing if applicable.

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Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection

Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

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.

Form

Liquid.

Color

Red.

Odor

Hydrocarbon-like.

Odor threshold

Not available.

pН

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

Not available.

range

Flash point

>= 314.6 °F (>= 157.0 °C) ASTM D93

**Evaporation rate** 

< 1 (BuAc=1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%)

Not available.

Vapor pressure temp.

< 1 mm Hg 68 °F (20 °C)

Vapor density

> 1 (AIR=1)

Relative density

Vapor pressure

0.85 - 0.86

Relative density temperature

60.08 °F (15.6 °C)

Solubility(ies)

Solubility (water)

NEGLIGIBLE

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

**Decomposition temperature** 

Not available.

Viscosity

Not available.

Other information

Kinematic viscosity

33 cSt

Kinematic viscosity

104 °F (40 °C)

temperature

# 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

No dangerous reaction known under conditions of normal use.

reactions

Contact with incompatible materials.

Conditions to avoid Incompatible materials

Strong oxidizing agents. Strong reducing agents.

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Hazardous decomposition

products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

weight hydrocarbons. Oxides of phosphorus. Sulfur oxides. Nitrogen oxides (NOx).

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

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

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not available. Acute toxicity

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 May cause an allergic skin reaction.

Germ cell 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. Base oil

severely refined: Not carcinogenic in animal studies. Representative material passes IP-346,

Modified Ames test, and/or other screening tests.

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.

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** Don't pollute. Conserve resources. Return used oil to collection centers. 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).

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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

<Unspecified>

Not regulated as dangerous goods.

IATA

<Unspecified>

Not regulated as dangerous goods.

IMDG

<Unspecified>

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

Annex II of WARPOL 7.

the IBC Code

### 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

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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 regulatéd.

(SDWA)

#### US state regulations

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

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

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

Not listed.

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

Not listed.

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#### 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.

#### International Inventories

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

# 16. Other information, including date of preparation or last revision

09-21-2015 Issue date

Version # 01

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1 Instability: 0

Preparation Information and

Disclaimer

This document was prepared by FCSD-Toxicology, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA, based in part on information provided by the manufacturer. The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. To the extent that there are any differences between this product's Safety Data Sheet (SDS) and the consumer

packaged product labels, the SDS should be followed.

Part number(s) XL-14, XT-5-5QM, XT-5-6GM, XT-5-BM, XT-5-DMC, XT-5-DMCR, XT-5-GM, XT-5-QM, XT-5-QM1

XT-5-QMC, XT-5-RM

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Issue Date: 09-21-2015



Revision Date: 08/24/2010

Print Date: 3/16/2011 MSDS Number: R0172170

Version: 3.2

Valvoline® GM MULTIPURPOSE GREASE ® Registered Trademark, Ashland or its subsidiaries

VV616

# 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

Valvoline® GM MULTIPURPOSE GREASE

® Registered Trademark, Ashland or its subsidiaries

Product code

VV616

Product Use Description

No data

# 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

Appearance: solid, amber

CAUTION!

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE

IRRITATION.

# **Potential Health Effects**

# **Exposure routes**

Inhalation, Skin contact, Eye Contact, Ingestion

#### Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

#### Skin contact

May cause skin irritation. Symptoms may include redness, burning, and swelling of skin.

# Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

#### Inhalation



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Print Date: 3/16/2011 MSDS Number: R0172170

Version: 3.2

Valvoline® GM MULTIPURPOSE GREASE ® Registered Trademark, Ashland or its subsidiaries VV616

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). 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)

### **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)

# **Target Organs**

No data

#### 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

There are no data available for assessing risk to the fetus from maternal exposure to this material.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components                                | CAS-No.    | Concentration |  |
|-----------------------------------------------------|------------|---------------|--|
| HIGHLY REFINED PETROLEUM OILS                       |            | >=80-<90%     |  |
| OCTADECANOIC ACID, 12-HYDROXY-,<br>MONOLITHIUM SALT | 7620-77-1  | >=10-<15%     |  |
| LITHIUM CARBOXYLATE                                 |            | >=1.5-<5%     |  |
| ZINC COMPOUNDS                                      | 68649-42-3 | >=1.5-<5%     |  |



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Print Date: 3/16/2011 MSDS Number: R0172170

Version: 3.2

Valvoline® GM MULTIPURPOSE GREASE ® Registered Trademark, Ashland or its subsidiaries VV616

#### 4. FIRST AID MEASURES

# Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

#### Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse. Hydrocarbons injected into the skin under pressure can cause severe injury. In the event of a high pressure injection injury, worker should obtain immediate medical assistance.

# 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 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: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.

# 5. FIRE-FIGHTING MEASURES

# Suitable extinguishing media



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Valvoline® GM MULTIPURPOSE GREASE ® Registered Trademark, Ashland or its subsidiaries VV616

Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

# Hazardous combustion products

carbon dioxide and carbon monoxide, hydrogen sulfide, zinc oxide, oxides of sulfur, nitrogen and phosphorus, Amines

# Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. 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

Combustible Liquid Class IIIB

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

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

Shovel material into containers and apply oil absorbing material to effect complete clean-up.

### Other information

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

# 7. HANDLING AND STORAGE

# Handling



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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.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Guidelines**

#### 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**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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:

Neoprene

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.

#### Respiratory protection

Respiratory protection is not required under normal conditions of use.



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VV616

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical statesolidFormgelColouramber

Odour no data available Boiling point/boiling range no data available Melting point/range no data available Sublimation point no data available pHno data available Flash point 450 °F / 232 °C **Ignition temperature** no data available **Evaporation rate** no data available Lower explosion limit/Upper explosion limit no data available Particle size no data available

Vapour pressure 2.000 hPa Calculated Vapor Pressure

Relative vapour density no data available

**Density** 0.86 g/cm<sup>3</sup> @ 60.1 °F / 15.6 °C

**Bulk density** No data Water solubility negligible Solubility no data available Partition coefficient: n-octanol/water no data available log Pow no data available Autoignition temperature no data available Viscosity, dynamic no data available Viscosity, kinematic no data available **Solids in Solution** no data available Decomposition temperature no data available Burning number no data available **Dust explosion constant** no data available Minimum ignition energy no data available

# 10. STABILITY AND REACTIVITY

#### Stability

Stable.

# ASHLAND: SAFETY DATA SHEET

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Valvoline® GM MULTIPURPOSE GREASE ® Registered Trademark, Ashland or its subsidiaries VV616

# Conditions to avoid

excessive heat

# **Incompatible products**

Strong oxidizing agents

# Hazardous decomposition products

carbon dioxide and carbon monoxide

#### Hazardous reactions

Product will not undergo hazardous polymerization.

# Thermal decomposition

No data

# 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

HIGHLY REFINED PETROLEUM OILS

: no data available

OCTADECANOIC ACID, 12-HYDROXY-,

: no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE

: no data available

ZINC COMPOUNDS

: LD 50 Rat: 2,000 - 5,000 mg/kg

Acute inhalation toxicity

HIGHLY REFINED PETROLEUM OILS

: no data available

OCTADECANOIC ACID, 12-HYDROXY-,

: no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE

: no data available

ZINC COMPOUNDS

: no data available

# Acute dermal toxicity

# ASHLAND: SAFETY DATA SHEET

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HIGHLY REFINED PETROLEUM OILS

: no data available

OCTADECANOIC ACID, 12-HYDROXY-,

MONOLITHIUM SALT

: no data available

LITHIUM CARBOXYLATE

: no data available

ZINC COMPOUNDS

: LD 50 Rabbit:

(>) 2,000 mg/kg

# 12. ECOLOGICAL INFORMATION

Biodegradability

HIGHLY REFINED PETROLEUM OILS

: no data available

OCTADECANOIC ACID, 12-HYDROXY-,

MONOLITHIUM SALT

: no data available

LITHIUM CARBOXYLATE

: no data available

ZINC COMPOUNDS

: no data available

Bioaccumulation

HIGHLY REFINED PETROLEUM OILS

: no data available

OCTADECANOIC ACID, 12-HYDROXY-,

: no data available

MONOLITHIUM SALT LITHIUM CARBOXYLATE

: no data available

ZINC COMPOUNDS

: no data available

#### **Ecotoxicity effects**

Toxicity to fish

HIGHLY REFINED PETROLEUM OILS

: no data available

OCTADECANOIC ACID, 12-HYDROXY-,

: no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE

: no data available

# ASHLAND: SAFETY DATA SHEET

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ZINC COMPOUNDS : no data available

Toxicity to daphnia and other aquatic invertebrates.

HIGHLY REFINED PETROLEUM OILS : no data available

OCTADECANOIC ACID, 12-HYDROXY-, : no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE : no data available

ZINC COMPOUNDS : no data available

Toxicity to algae

HIGHLY REFINED PETROLEUM OILS : no data available

OCTADECANOIC ACID, 12-HYDROXY-, : no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE : no data available

ZINC COMPOUNDS : no data available

Toxicity to bacteria

HIGHLY REFINED PETROLEUM OILS : no data available

OCTADECANOIC ACID, 12-HYDROXY-, : no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE : no data available

ZINC COMPOUNDS : no data available

Biochemical Oxygen Demand (BOD)

HIGHLY REFINED PETROLEUM OILS : no data available

OCTADECANOIC ACID, 12-HYDROXY-, : no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE : no data available

ZINC COMPOUNDS : no data available

Chemical Oxygen Demand (COD)

HIGHLY REFINED PETROLEUM OILS : no data available



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OCTADECANOIC ACID, 12-HYDROXY-,

: no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE

: no data available

ZINC COMPOUNDS

: no data available

Additional ecological information

HIGHLY REFINED PETROLEUM OILS : no data available

OCTADECANOIC ACID, 12-HYDROXY-,

: no data available

MONOLITHIUM SALT

LITHIUM CARBOXYLATE

: no data available

ZINC COMPOUNDS

: no data available

# 13. DISPOSAL CONSIDERATIONS

# Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

#### 14. TRANSPORT INFORMATION

#### REGULATION

| ID<br>NUMBER | PROPER SHIPPING NAME | *HAZARD<br>CLASS | SUBSIDIARY<br>HAZARDS | PACKING<br>GROUP | MARINE<br>POLLUTANT<br>/ LTD. QTY. |  |  |
|--------------|----------------------|------------------|-----------------------|------------------|------------------------------------|--|--|
| UC DOT DOAD  |                      |                  |                       |                  |                                    |  |  |

#### U.S. DOT - ROAD

Not dangerous goods

# **U.S. DOT - RAIL**

Not dangerous goods

#### U.S. DOT - INLAND WATERWAYS



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VV616

Not dangerous goods TRANSPORT CANADA ~ ROAD Not dangerous goods TRANSPORT CANADA - RAIL Not dangerous goods TRANSPORT CANADA - INLAND WATERWAYS Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES Not dangerous goods \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID 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. 15. REGULATORY INFORMATION California Prop. 65 Proposition 65 warnings are not required for this product based

on the results of a risk assessment.



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No SARA Hazards

SARA 313 Component(s)

ZINC COMPOUNDS

1.99 %

New Jersey RTK Label Information

HIGHLY REFINED PETROLEUM OILS

OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT 7620-77-1

LITHIUM CARBOXYLATE

ZINC COMPOUNDS 68649-42-3

PROPRIETARY LUBRICANT ADDITIVE

Pennsylvania RTK Label Information

HIGHLY REFINED PETROLEUM OILS

OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT 7620-77-1

LITHIUM CARBOXYLATE

**Notification status** 

US. Toxic Substances Control Act y (positive listing)

Australia. Industrial Chemical (Notification and Assessment) y (positive listing)

Act

New Zealand. Inventory of Chemicals (NZIoC), as published n (Negative listing)

by ERMA New Zealand

Canada. Canadian Environmental Protection Act (CEPA). y (positive listing)

Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)

Japan. Kashin-Hou Law List y (positive listing)
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)

|                  | HMIS | NFPA |
|------------------|------|------|
| Health           | 1    | 1    |
| Flammability     | 1    | 1    |
| Physical hazards | 0    |      |
| Instability      |      | 0    |
| Specific Hazard  |      |      |



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Valvoline® GM MULTIPURPOSE GREASE ® Registered Trademark, Ashland or its subsidiaries VV616

# 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).

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#### MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 07/22/03 Date Printed: 10/02/06

MSDS No: 505.0393450-001.001

#### PL HIGH MILEAGE MOTOR OIL 10W30

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PL HIGH MILEAGE MOTOR OIL 10W30

SAP Material No: NP75305

General or Generic ID: PRIVATE LABEL HIGH MILEAGE MOTOR OIL 10W30

Company

Telephone Numbers

The Valvoline Company

Emergency: 1-800-274-5263

P.O. Box 14000

Lexington, KY 40512

Information: 1-859-357-7206

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s) CAS Number % (by weight)

ALIPHATIC PETROLEUM DISTILLATES 64742-65-0 79.0-89.0

DETERGENT/DISPERSANT ADDITIVE

6.0-16.0

VISCOSITY INDEX IMPROVER

1.0- 9.0

ZINC COMPOUNDS

1.0- 6.0

ALKYLATED PHENOL

26998-80-1 1.0- 6.0

#### 3. HAZARDS IDENTIFICATION

Potential Health Effects

Eve

Can cause eye irritation.

Skin

Prolonged or repeated contact may dry and crack the skin. Additional symptoms of skin contact may include: acne, Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use

Swallowing

Swallowing this material is not likely to be harmful.

#### Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects.

# Symptoms of Exposure

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).

#### Target Organ Effects No data

#### Developmental Information

There are no data available for assessing risk to the fetus from maternal exposure to this material.

#### Cancer Information

This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration. Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

# Other Health Effects No data

#### Primary Route(s) of Entry

Inhalation, Skin contact, Eye contact, Ingestion.

#### 4. FIRST AID MEASURES

#### Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

#### Skin

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

#### Swallowing

First aid is not normally required. If symptoms develop, seek medical attention.

#### 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.

#### Note to Physicians

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthmalike conditions).

#### 5. FIRE FIGHTING MEASURES

Flash Point
228.0 F (108.8 C)
Explosive Limit
No data
Autoignition Temperature
No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, nitrogen oxides, sulfur oxides, various hydrocarbons.

# Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

Regular foam, carbon dioxide, dry chemical.

#### Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 2, Flammability - 1, Reactivity - 0

#### 6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Notify the proper authorities as required that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

#### 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. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Precautions during use: avoid prolonged or frequently repeated skin contact with this

material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

### Storage

Do not store near extreme heat, open flame, or sources of ignition.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection

Wear impervious gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Engineering Controls** 

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

ALIPHATIC PETROLEUM DISTILLATES (64742-65-0)

OSHA VPEL 5.000 mg/m3 - TWA

ACGIH TLV 5.000 mg/m3 - TWA

DETERGENT/DISPERSANT ADDITIVE No exposure limits established

# VISCOSITY INDEX IMPROVER

No exposure limits established

# ZINC COMPOUNDS

No exposure limits established

# ALKYLATED PHENOL (26998-80-1)

No exposure limits established

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point** 

(for component) > 425.0 F (218.3 C)

Vapor Pressure

(for product) .000

Specific Vapor Density

No data

Specific Gravity

.872 @ 60.00 F

Liquid Density

7.260 lbs/gal @ 60.00 F

7.260 lbs/gal @ 60.00 F

Percent Volatiles (Including Water)

No data

Evaporation Rate

No data

Appearance

CLEAR, DRY, & BRIGHT

State

LIQUID

Physical Form

No data

Color

**AMBER** 

Odor

No data

pΗ

No data

Viscosity

10.8 cst @

100 C

#### 10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: alcohols, aldehydes, carbon dioxide and carbon monoxide hydrogen sulfide, various hydrocarbons.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: acids, alkalies, chlorine, halogens, strong oxidizing agents.

#### 11. TOXICOLOGICAL INFORMATION

No data

### 12. ECOLOGICAL INFORMATION

No data

#### 13. DISPOSAL CONSIDERATION

Waste Management Information

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

#### 14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

#### 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A None

Section 311/312 Hazard Class - 40 CFR 370.2 Immediate(X) Delayed() Fire() Reactive() Sudden Release of Pressure()

SARA 313 Components - 40 CFR 372.65 Section 313 Component(s) CAS Number

#### ZINC COMPOUNDS

# International Regulations

Inventory Status

AICS (AUSTRALIA) The intentional ingredients of this product are listed.

DSL (CANADA) The intentional ingredients of this product are listed.

ECL (SOUTH KOREA) The intentional ingredients of this product are listed.

EINECS (EUROPE) This material or a component requires notification before sale or importation.

ENCS (JAPAN) the intentional ingredients of this product are listed. PICCS (PHILIPPINES) The intentional ingredients of this product are listed.

State and Local Regulations California Proposition 65 None

#### 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.

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# AMERADA HESS CORPORATION

NFPA 704 (Section 16)

MATERIAL SAFETY DATA SHEET

HESS 10W30 Motor Oil

MSDS No. 8957

CHEMICAL PRODUCT and COMPANY INFORMATION

Amerada Hess Corporation

1 Hess Plaza

Woodbridge, NJ 07095-0961

Manufactured by:

The Valvoline Company

P.O. Box 14000

Lexington, KY 40512

**EMERGENCY TELEPHONE NUMBER:** COMPANY CONTACT (business hours): VALVOLINE:

800-247-5263

Valvoline Info: 606-357-7847

AHC Corporate Safety 732-750-6000

SYNONYMS: Valvoline Product Code 52670413

This product is manufactured by The Valvoline Company and packaged under the Amerada Hess ("Hess") label. The information in this MSDS has been developed by The Valvoline Company, MSDS No. 505.0170829-014.002I, date 5/11/99.

See Section 16 for abbreviations and acronyms.

#### COMPOSITION and INFORMATION ON INGREDIENTS 2.

INGREDIENT NAME

CONCENTRATION PERCENT BY WEIGHT

Aliphatic Petroleum Distillates CAS NUMBER: 64742-65-0

OSHA PEL-TWA: 5 mg/m³ as mineral oil mist ACGIH TLV-TWA: 5 mg/m³ as mineral oil mist

83.0 - 93.0

Detergent/ Dispersant Engine Oil

No exposure limits established

N/A

Package

Zinc Compounds

No exposure limits established

Petroleum-based lubricating oil with detergent/dispersant engine oil package with zinc compounds.

#### HAZARDS IDENTIFICATION 3.

#### **EYES**

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms include redness, burning, drying and cracking of the skin, and skin burns. Additional symptoms of skin contact include: acne. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

# SYMPTOMS OF EXPOSURE

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), blood abnormalities (breakage of blood cells), liver damage.

# TARGET ORGAN EFFECTS

No data

Revision Date: 05/11/99

Page 1 of 5

# AMERADA HESS CORPORATION

# MATERIAL SAFETY DATA SHEET

#### HESS 10W30 Motor Oil

MSDS No. 8957

Page 2 of 5

# **DEVELOPMENTAL INFORMATION**

There are no data available for assessing risk to the fetus from maternal exposure to this material.

#### **CANCER INFORMATION**

This material is not listed as a carcinogen by IARC, NTP, or OSHA. Used motor oil has been shown to cause skin cancer in laboratory animal continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

#### **OTHER HEALTH EFFECTS**

No data

#### 4. FIRST AID MEASURES

#### **EYES**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is visual difficulty, seek 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 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.

#### Note to Physicians

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration hazard. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

# 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES:

FLASH POINT:

430.0 °F (221.1 °C) COC

**AUTOIGNITION POINT:** 

No data

**EXPLOSIVE LIMITS (%):** 

No data

#### HAZARDOUS PRODUCTS OF COMBUSTION

May form: carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorous, various hydrocarbons.

#### **FIRE AND EXPLOSION HAZARDS**

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. No special fire hazards are known to be associated with this product. Dense smoke may be generated while burning.

#### **EXTINGUISHING MEDIA**

Regular fire fighting foam, carbon dioxide, dry chemical.

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# AMERADA HESS CORPORATION

# MATERIAL SAFETY DATA SHEET

HESS 10W30 Motor Oil

MSDS No. 8957

FIRE FIGHTING INSTRUCTIONS

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with full facepiece operated in the pressure-demand mode with appropriate turnout gear and chemical resistant personal protective equipment. Refer to Section 8.

See Section 16 for the NFPA 704 Hazard Rating.

#### 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

LARGE SPILL: Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify authorities as required, that a spill has occurred. Persons not wearing proper personal protective equipment should be excluded from area of spill until clean-up has been completed.

# 7. HANDLING and STORAGE

## HANDLING PRECAUTIONS

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. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Precautions during use: avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

# STORAGE PRECAUTIONS

Do not store near extreme heat, open flame, or sources of ignition.

# 8. EXPOSURE CONTROLS and PERSONAL PROTECTION

# **ENGINEERING CONTROLS**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

## EYE PROTECTION

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

## SKIN PROTECTION

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product., To prevent repeated or prolonged skin contact, wear impervious clothing and boots. Wear normal work clothing covering arms and legs.

#### RESPIRATORY PROTECTION

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure. Not required under normal conditions of use. However, if oil mists are

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# AMERADA HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

## HESS 10W30 Motor Oil

MSDS No. 8957

generated above recommended PEL/TLV of 5 mg/m3, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

#### PHYSICAL and CHEMICAL PROPERTIES

#### **APPEARANCE**

Dry, clear, and bright liquid

#### **ODOR**

No data

#### BASIC PHYSICAL PROPERTIES

**BOILING RANGE:** 

(for component) > 425.0 F (218.3 C) @ 760.00 mmHg

VAPOR PRESSURE:

Not applicable

VAPOR DENSITY (air = 1):

No data

LIQUID DENSITY:

7.340 lbs/gal @ 60.00 F (.881 kg/l @ 15.60 C)

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 0.881 @ 60F PERCENT VOLATILES:

No data

**EVAPORATION RATE:** 

Slower than ethyl ether

:Ha

Not applicable

VISCOSITY:

<= 3300.0 cps @ -20 C; 10.0 - 11.0 cst @ 100 C

#### 10. STABILITY and REACTIVITY

STABILITY: Stable. Product will not undergo hazardous polymerization.

#### **INCOMPATIBLE MATERIALS**

Avoid contact with: acids, halogens, strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

May form: aldehydes, carbon dioxide and carbon monoxide, hydrogen sulfide, oxides of sulfur, nitrogen and phosphorus, toxic fumes, various hydrocarbons.

#### **TOXICOLOGICAL PROPERTIES** 11.

No data

#### 12. **ECOLOGICAL INFORMATION**

No data

#### **DISPOSAL CONSIDERATIONS**

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

## TRANSPORTATION INFORMATION

DOT Information - 49 CFR 172.101 DOT Description: Not Regulated

Container/Mode: CASES/SURFACE - NO EXCEPTIONS

NOS Component: None

RQ (Reportable Quantity) - 49 CFR 172.101: Not applicable

#### REGULATORY INFORMATION

## TSCA (Toxic Substances Control Act) Status (UNITED STATES)

The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4: None

SARA 302 Components - 40 CFR 355 Appendix A: None

## SARA Section 311/312 Hazard Class - 40 CFR 370.2

Immediate (X) Delayed (X) Fire(--) Reactive (--) Sudden Release of Pressure (--)

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# AMERADA HESS CORPORATION

# MATERIAL SAFETY DATA SHEET

HESS 10W30 Motor Oil

MSDS No. 8957

# SARA 313 Components - 40 CFR 372.65 Section 313 Component(s) and CAS Number:

ZINC C1-C14 ALKYLDITHIOPHOSPHATE (CAS No. 68649-42-3)

International Regulations Inventory Status: Not determined State and Local Regulations: California Proposition 65 None

#### OTHER INFORMATION 16.

Slight HEALTH: NFPA® HAZARD RATING Slight FIRE: 1 Negligible REACTIVITY: 0 Slight HEALTH: HMIS® HAZARD RATING Slight FIRE: Negligible REACTIVITY: 0 \* Chronic

OTHER: The information presented in this MSDS was taken directly from the MSDS for this product prepared by The Valvoline Company, the manufacturer of the product - see Section 2.

#### ABBREVIATIONS:

> = Greater than < = Less than AP = Approximately N/D = Not Determined ppm = parts per million N/A = Not Applicable

#### ACRONYMS:

| ACGIH  | American Conference of Governmental         | NTP .        | National Toxicology Program             |
|--------|---------------------------------------------|--------------|-----------------------------------------|
| MUGIT  | Industrial Hygienists                       | OPA          | Oil Pollution Act of 1990               |
| AIHA   | American Industrial Hygiene Association     | OSHA         | U.S. Occupational Safety & Health       |
| ANSI   | American National Standards Institute (212) |              | Administration                          |
| 7 (10) | 642-4900                                    | PEL          | Permissible Exposure Limit (OSHA)       |
| API    | American Petroleum Institute                | RCRA         | Resource Conservation and Recovery      |
|        | (202) 682-8000                              |              | Act                                     |
| CERCLA | Comprehensive Emergency Response,           | REL          | Recommended Exposure Limit (NIOSH)      |
|        | Compensation, and Liability Act             | SARA         | Superfund Amendments and                |
| DOT    | U.S. Department of Transportation           |              | Reauthorization Act of 1986 Title III   |
|        | [General info: (800) 467-4922]              | SCBA         | Self-Contained Breathing Apparatus      |
| EPA    | U.S. Environmental Protection Agency        | SPCC         | Spill Prevention, Control, and          |
| HMIS   | Hazardous Materials Information System      |              | Countermeasures                         |
| IARC   | International Agency For Research On        | STEL         | Short-Term Exposure Limit (generally 15 |
|        | Cancer                                      |              | minutes)                                |
| MSHA   | Mine Safety and Health Administration       | TLV          | Threshold Limit Value (ACGIH)           |
| NFPA   | National Fire Protection Association (617)  | TSCA .       | Toxic Substances Control Act            |
|        | 770-3000                                    | TWA          | Time Weighted Average (8 hr.)           |
| NIOSH  | National Institute of Occupational Safety   | WEEL         | Workplace Environmental Exposure        |
|        | and Health                                  | 14/1 18 61/0 | Level (AIHA)                            |
| NOIC   | Notice of Intended Change (proposed         | WHMIS        | Canadian Workplace Hazardous            |
|        | change to ACGIH TLV)                        |              | Materials Information System            |

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES (The Valvoline Company)
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.

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29 CFR 1910.1200 (OSHA HazCom 2012)

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product identifier

Trade name

: Valvoline™ PREMIUM CONVENTIONAL SAE 30

MOTOR OIL

#### Recommended use of the chemical and restrictions on use

| Details of the supplier of the safety data | Emergency telephone number     |
|--------------------------------------------|--------------------------------|
| sheet                                      | 1-800-ASHLAND (1-800-274-5263) |
| Ashland                                    | , , ,                          |
| P.O. Box 2219                              | Regulatory Information Number  |
| Columbus, OH 43216                         | 1-800-325-3751                 |
| United States of America                   |                                |
|                                            | Product Information            |
|                                            | 614-790-3333                   |
| EHS Customer Requests@ashland.com          |                                |
| ,                                          |                                |

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

## **GHS Label element**

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

# Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

## Hazardous components

| Chemical Name                                                | CAS-No.    | Classification      | Concentration (%) |
|--------------------------------------------------------------|------------|---------------------|-------------------|
| Benzenesulfonic acid, C10-60-<br>alkyl derivs., sodium salts | 90194-32-4 | Eye Irrit. 2A; H319 | 6.24              |

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#### **SECTION 4. FIRST AID MEASURES**

General advice

: No hazards which require special first aid measures.

If inhaled

: If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact

: Remove contact lenses.

Protect unharmed eye.

If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: No symptoms known or expected.

Notes to physician

: No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

.

Product is compatible with standard fire-fighting agents.

Further information

: Standard procedure for chemical fires.

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Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information

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

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage

: Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid

: No materials to be especially mentioned.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Engineering measures

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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.

#### Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally

required.

Eye protection

: Not required under normal conditions of use. Wear splash-

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proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: General industrial hygiene practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid

Odour

: No data available

Odour Threshold

: No data available

рΗ

: No data available

Melting point/freezing point

: No data available

Boiling point/boiling range

: No data available

Flash point

: > 390 °F / > 199 °C

Method: Cleveland open cup

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

Upper explosion limit

: 6 %(V)

Lower explosion limit : 1 %(V)

Calculated Explosive Limit

Vapour pressure

Calculated Explosive Limit

0.0133333 hPa (21.11 °C) Calculated Vapor Pressure

Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.8785 g/cm3 (15.6 °C)

Solubility(ies)

Water solubility

: insoluble

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

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Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: 80 mm2/s (40 °C)

Oxidizing properties

: No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

No hazardous decomposition products are known.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Not irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

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## Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Irritating to eyes

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

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.

Product:

No aspiration toxicity classification

#### **Further information**

**Product:** 

Remarks: No data available

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.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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

by NTP.

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

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Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

General advice

: Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

# **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

**REGULATION** 

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD | SUBSIDIARY | PACKING | MARINE      | ĺ |
|-----------|----------------------|---------|------------|---------|-------------|---|
|           |                      | CLASS   | HAZARD\$   | GROUP   | POLLUTANT / |   |
|           |                      |         |            |         | LTD. QTY.   | ĺ |

## U.S. DOT - ROAD

Not dangerous goods

## U.S. DOT - RAIL

Not dangerous goods

# U.S. DOT - INLAND WATERWAYS

Not dangerous goods

#### TRANSPORT CANADA - ROAD

Not dangerous goods

## TRANSPORT CANADA - RAIL

Not dangerous goods

# TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

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|                                                                        |                                               |                                       |                                                             |                                          |                                        |
| NTERNATIONAL MARITIME DA                                               | NOTED ON COORD                                |                                       |                                                             |                                          |                                        |
| NTERNATIONAL MARITIME DA<br>Not dangerou                               |                                               |                                       |                                                             |                                          |                                        |
|                                                                        |                                               | · · · · · · · · · · · · · · · · · · · |                                                             |                                          |                                        |
| NTERNATIONAL AIR TRANSPO<br>Not dangerous                              |                                               | - CARGO                               |                                                             |                                          |                                        |
| 110. 00.190100                                                         | 99000                                         |                                       |                                                             |                                          |                                        |
| NTERNATIONAL AIR TRANSPO                                               |                                               | - PASSENGE                            | R                                                           |                                          |                                        |
| Not dangerou                                                           | s goods                                       |                                       |                                                             |                                          | ······································ |
| MEXICAN REGULATION FOR T                                               | HE LAND TRANSPO                               | DT OF UAZA                            | DDOLIG MATER                                                | UALS AND                                 |                                        |
| VASTES                                                                 |                                               | INT OF HAZE                           | INDOUS WATER                                                | AND                                      |                                        |
| Not dangerou                                                           | s goods                                       |                                       |                                                             |                                          |                                        |
|                                                                        |                                               |                                       |                                                             |                                          |                                        |
| ORM = ORM-D, CBL = COMBU                                               | STIBLE LIQUID                                 |                                       |                                                             |                                          |                                        |
| Marine pollutant                                                       | no                                            |                                       |                                                             |                                          |                                        |
|                                                                        | 1                                             |                                       |                                                             |                                          |                                        |
| Dangerous goods descriptions exceptions that can be applied. shipment. | (if indicated above) m<br>Consult shipping do | ay not reflect<br>cuments for de      | quantity, end-use<br>escriptions that ar                    | or region-specific<br>re specific to the |                                        |
| SECTION 15. REGULATORY I                                               | NEORMATION                                    |                                       |                                                             |                                          |                                        |
|                                                                        |                                               |                                       |                                                             |                                          |                                        |
| SARA 311/312 Hazards                                                   | : No SARA Ha                                  | zordo                                 |                                                             |                                          |                                        |
|                                                                        |                                               |                                       |                                                             |                                          |                                        |
| SARA 313<br>Component(s)SARA 313                                       | known CAS r                                   | numbers that e                        | ain any chemical<br>exceed the thresh<br>I by SARA Title II |                                          |                                        |
| Pennsylvania Right To K<br>HEAVY P                                     | now<br>ARAFFINIC DISTILL                      | ATE                                   | 64742-54-7                                                  | 90.00 -                                  |                                        |
| Benzenes<br>sodium sa                                                  | sulfonic acid, C10-60-<br>alts                | alkyl derivs.,                        | 90194-32-4                                                  | 100.00 %<br>5.00 - 10.00 %               |                                        |
| New Jersey Right To Kno<br>HEAVY P                                     | ow<br>ARAFFINIC DISTILL                       | ATE                                   | 64742-54-7                                                  | 90.00 -                                  |                                        |
| Benzenes<br>sodium sa                                                  | sulfonic acid, C10-60-<br>alts                | alkyl derivs.,                        | 90194-32-4                                                  | 100.00 %<br>5.00 - 10.00 %               |                                        |
| POLYOLE                                                                | EFIN AMIDE ALKENE                             | EAMINE                                | Not Assigned                                                | 1.00 - 5.00 %                            |                                        |
|                                                                        |                                               |                                       |                                                             |                                          |                                        |

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#### LUBRICANT ADDITIVE

Not Assigned

1.00 - 5.00 %

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

**AUSTR** 

: On the inventory, or in compliance with the inventory

**NZIOC** 

: Not in compliance with the inventory

**KECL** 

: On the inventory, or in compliance with the inventory

**PICCS** 

: On the inventory, or in compliance with the inventory

**IECSC** 

: Low volume exemption

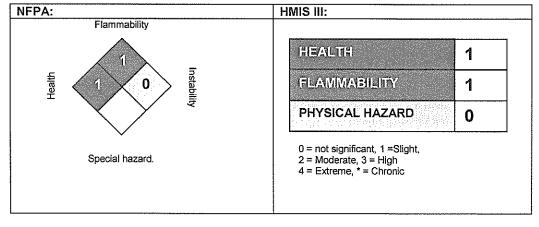
#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 05/22/2015



# NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

| ASHLAND.                                            | Page: 10                  |
|-----------------------------------------------------|---------------------------|
| SAFETY DATA SHEET                                   | Revision Date: 05/22/2015 |
|                                                     | Print Date: 6/1/2015      |
|                                                     | SDS Number: R0178048      |
| Valvoline™ PREMIUM CONVENTIONAL SAE 30<br>MOTOR OIL | Version: 1.0              |
| 797978                                              |                           |

#### Full text of H-Statements referred to under sections 2 and 3.

H319

Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

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

H-statement : Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

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| SAFETY DATA SHEET                                   | Revision Date: 05/22/201 |
| ,                                                   | Print Date: 6/1/201      |
|                                                     | SDS Number: R017804      |
| Valvoline™ PREMIUM CONVENTIONAL SAE 30<br>MOTOR OIL | Version: 1.              |
| 797978                                              |                          |

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIRS: Hazardous Materials Information Review Commission
HMIS: Hazardous Materials Identification System
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PMRA: Health Canada Pest Management Regulatory Agency

RTK : Right to Know WHMIS : Workplace Hazardous Materials Information System

Material Name: Hess 5W30 Motor Oil

State Regulations

#### Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

#### Additional Regulatory Information

#### Component Analysis - Inventory

| Component                                    | CAS#       | TSCA | CAN  | EEC    |
|----------------------------------------------|------------|------|------|--------|
| Petroleum distillates, solvent dewaxed heavy | 64742-65-0 | Yes  | D\$L | EINECS |
| paraffinic                                   |            |      |      |        |

# \* \* \* Section 16 - Other Information \* \* \*

NFPA® Hazard Rating Hea

Health 1

Fire 1

Reactivity 0



**HMIS® Hazard Rating** 

Health

l\* Slight

Fire

Slight

Physical

Minimal

\*Chronic

# Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

#### Literature References

None

#### Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

|             | End of Sheet          |  |
|-------------|-----------------------|--|
|             |                       |  |
| Page 8 of 8 | Revision Date 8/30/12 |  |

Material Name: Hess 5W30 Motor Oil

# Aspiration Respiratory Organs Hazard

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration hazard.

Section 12 - Ecological Information

# **Ecotoxicity**

## A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

# B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Petroleum distillates, solvent dewaxed heavy paraffinic (64742-65-0)

**Test & Species** 

Conditions

96 Hr LC50 Oncorhynchus mykiss

>5000 mg/L

48 Hr EC50 Daphnia magna

>1000 ma/L

# Persistence/Degradability

No information available.

#### Bioaccumulation

No information available.

#### Mobility in Soil

No information available.

Section 13 - Disposal Considerations

# Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## Disposal of Contaminated Containers or Packaging

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

**Section 14 - Transportation Information** 

#### **DOT** Information

Shipping Name: Not Regulated

Section 15 - Regulatory Information

# Regulatory Information

#### Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA Section 311/312 - Hazard Classes

Acute Health

Chronic Health

Sudden Release of Pressure Fire

Reactive

**SARA SECTION 313 - SUPPLIER NOTIFICATION** 

ZINC C1-C14 ALKYLDITHIOPHOSPHATE (CAS No. 68649-42-3)

Page 7 of 8 Revision Date 8/30/12

Material Name: Hess 5W30 Motor Oil

# Section 11 - Toxicological Information

## **Acute Toxicity**

#### A: General Product Information

Harmful if large amounts are swallowed.

#### B: Component Analysis - LD50/LC50

# Petroleum distillates, solvent dewaxed heavy paraffinic (64742-65-0)

inhalation LC50 Rat >4.7 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

# Potential Health Effects: Skin Corrosion Property/Stimulativeness

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms include redness, burning, drying and cracking of the skin, and skin burns. Additional symptoms of skin contact include: acne. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

# Potential Health Effects: Eye Critical Damage/ Stimulativeness

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

# Potential Health Effects: Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

#### Potential Health Effects: Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

## Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

#### Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

#### Carcinogenicity

# A: General Product Information

May cause cancer.

Used motor oil has been shown to cause skin cancer in laboratory animal continually exposed by repeated applications.

# **B:** Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

## Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

#### Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

#### Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

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|-------------|-----------------------|--|

Material Name: Hess 5W30 Motor Oil

## **Personal Protective Equipment: Hands**

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product.

# Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

# Personal Protective Equipment: Skin and Body

To prevent repeated or prolonged skin contact, wear impervious clothing and boots. Wear normal work clothing covering arms and legs.

## Hygiene Measures

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

# Section 9 - Physical & Chemical Properties

Appearance: Dry, clear and bright Odor: None

Physical State: Liquid pH: ND Vapor Pressure: ND Vapor Density: ND

**Boiling Point:** >425 °F (218.3°C) @ 760.00 Melting Point:

mmHg

Solubility (H2O): Negligible **Specific Gravity:** 0.876 @ 60°F (16°C)

Evaporation Rate: Slower than ethyl ether VOC: ND

Viscosity: <= 3300.0 cps @ -25°C; 10.5 -Octanol/H2O Coeff.:

11.2 cst @ 100°C

Flash Point: 410 °F (210.0 °C) Flash Point Method: COC Upper Flammability Limit ND Lower Flammability Limit ND

(UFL): (LFL):

Burning Rate: ND Auto Ignition: ND

# Section 10 - Chemical Stability & Reactivity Information

## **Chemical Stability**

This is a stable material.

#### Hazardous Reaction Potential

Will not occur.

# **Conditions to Avoid**

None

## **Incompatible Products**

Avoid contact with: acids, halogens, strong oxidizing agents.

## **Hazardous Decomposition Products**

May form: aldehydes, carbon dioxide and carbon monoxide, hydrogen sulfide, oxides of sulfur, nitrogen and phosphorus, toxic fumes, various hydrocarbons.

Material Name: Hess 5W30 Motor Oil

## **Environmental Precautions**

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

# **Prevention of Secondary Hazards**

None

# \* \* \* Section 7 - Handling and Storage \* \* \*

# **Handling Procedures**

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents.

## Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

# Incompatibilities

Avoid contact with: acids, halogens, strong oxidizing agents.

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

#### Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

## **Engineering Measures**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

# Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

|             | *····································· |  |
|-------------|----------------------------------------|--|
| Page 4 of 8 | Revision Date 8/30/12                  |  |

Material Name: Hess 5W30 Motor Oil

#### **Hazardous Combustion Products**

May form: carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorous, various hydrocarbons.

# **Extinguishing Media**

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

# **Unsuitable Extinguishing Media**

None

# Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

# \* \* \* Section 6 - Accidental Release Measures \* \* \*

# **Recovery and Neutralization**

Carefully contain and stop the source of the spill, if safe to do so.

#### Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

SMALL SPILL: Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

LARGE SPILL: Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify authorities as required, that a spill has occurred. Persons not wearing proper personal protective equipment should be excluded from area of spill until clean-up has been completed.

#### **Emergency Measures**

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

#### Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

| Page 3 of 8 | Revision | Date 8/30/12 |
|-------------|----------|--------------|

#### Material Name: Hess 5W30 Motor Oil

#### Storage

Store locked up.

Store in a well-ventilated place.

Keep container tightly closed.

#### Disposal

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

# \* \* \* Section 3 - Composition / Information on Ingredients \* \* \*

| CAS#       | Component                                               | Percent |
|------------|---------------------------------------------------------|---------|
| 64742-65-0 | Petroleum distillates, solvent dewaxed heavy paraffinic | 83-93   |

Petroleum-based lubricating oil with detergent/dispersant engine oil package with zinc compounds.

# \* \* \* Section 4 - First Aid Measures \* \* \*

## First Aid: Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is visual difficulty, seek medical attention.

#### First Aid: Skin

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

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

#### First Aid: Inhalation

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

## First Aid: Notes to Physician

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration hazard. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

# \* \* \* Section 5 - Fire Fighting Measures \* \* \*

#### General Fire Hazards

See Section 9 for Flammability Properties.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. No special fire hazards are known to be associated with this product. Dense smoke may be generated while burning.

|     |    | _ | _  | _ |
|-----|----|---|----|---|
| Pac | 70 | 2 | Λf | Я |



Material Name: Hess 5W30 Motor Oil

SDS No. 9683 us ghs

Synonyms: Valvoline Product Code 52670453

# \* \* \* Section 1 - Product and Company Identification \* \* \*

#### Manufacturer Information

Hess Corporation
1 Hess Plaza

Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS Emergency # 800-424-9300 CHEMTREC

www.hess.com (Environment, Health, Safety Internet Website)

# \* \* \* Section 2 - Hazards Identification \* \* \*

# **GHS Classification:**

Skin Corrosion/Irritation – Category 2 Specific Target Organ Toxicity – Category 3 (narcosis) Carcinogenicity - Category 1B

# **GHS LABEL ELEMENTS**

## Symbol(s)



## Signal Word

WARNING

#### **Hazard Statements**

Causes skin irritation.

May cause cancer.

May cause drowsiness or dizziness.

# **Precautionary Statements**

#### Prevention

Wash hands and forearms thoroughly after handling.

Wear protective gloves/protective clothing/eye protection.

Obtain special instructions before use.

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

Avoid breathing fume/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

#### Response

If on skin: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

If exposed or concerned: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep in a position comfortable for breathing. Call poison center or doctor if you feel unwell.

# **Product Information**



A PRODUCT OF VALVOLINE, A DIVISION OF ASHLAND INC.

# VALVOLINE VR-1 RACING MOTOR OIL

Valvoline VR-1 Racing Motor Oil is a family of race-proven lubricants formulated to provide high load carrying characteristics, minimum foaming and maximum resistance to thermal degradation. Exclusive chemistry reduces internal friction and enhances power output under extreme service conditions. Valvoline VR-1 Racing Motor Oil is recommended for engines burning gasoline and full or partial alcohol fuels in track and street service. Valvoline VR-1 Racing Motor Oil is for use in any car, light truck, van, or SUV where API "SN" is recommended (see proper viscosity grade below).

Valvoline VR-1 Racing Motor Oil is not recommended for use in wet clutches (use Valvoline 4-Stroke Motorcycle Oil).

## The Valvoline VR-1 Racing Motor Oil Advantages

- The #1 selling Racing Oil of all time and race track proven.
- · Protects against high-temperature deposits for a cleaner engine.
- ZDDP additive provides tough anti-wear protection.
- · Enhanced with fricition modifier to improve horsepower.
- Formulated with enhanced anti-foam system.

| Approvals/Performance Levels | Viscosity Grade/Other |           |           |           |
|------------------------------|-----------------------|-----------|-----------|-----------|
| API SN                       | SAE 30                | SAE 40    | SAE 50    |           |
| API SM/SL                    | SAE 30                | SAE 40    | SAE 50    |           |
| API SH/CD/CF*                | SAE 30                | SAE 40    | SAE 50    |           |
| Test                         | SAE 30                | SAE 40    | SAE 50    | SAE 60    |
| Vis @ 100°C (cSt)            | 11.5                  | 14.5      | 20.0      | 24.0      |
| Vis @ 40°C (cSt)             | 94.87                 | 136.8     | 219.3     | 293.4     |
| Viscosity Index              | 113                   | 105       | 105       | 104       |
| Spec Gravity @ 60°F          | 0.8816                | 0.8851    | 0.8901    | 0.8931    |
| Density (lbs/gal)            | 7.35                  | 7.38      | 7.42      | 7.45      |
| Total Base No.               | 8.5                   | 8.5       | 8.5       | 8.5       |
| Flash COC (°C)               | 212                   | 248       | 254       | 254       |
| Pour Point (°C)              | -30                   | -27       | -18       | -18       |
| NOACK % off @ 250°C          | <15                   | <15       | <15       | <15       |
| Sulfated Ash                 | 1                     | 1         | 1         | 1         |
| Zinc/Phosphorus              | 0.14/0.13             | 0.14/0.13 | 0.14/0.13 | 0.14/0.13 |
| Calcium                      | 0.210                 | 0.210     | 0.210     | 0.210     |
| Sodium                       | 0.049                 | 0.049     | 0.049     | 0.049     |

<sup>\*</sup> Obsolete Category

This information only applies to products manufactured in the following location(s): USA, Canada

Effective Date: 02-09-2015

Replaces: 12-31-2015

Author's Initials:

EMF

Rev. Code 006



# **Product Information**



A PRODUCT OF VALVOLINE, A DIVISION OF ASHLAND INC.

# VALVOLINE VR-1 RACING MOTOR OIL

Valvoline VR-1 Racing Motor Oil is a family of race-proven lubricants formulated to provide high load carrying characteristics, minimum foaming and maximum resistance to thermal degradation. Exclusive chemistry reduces internal friction and enhances power output under extreme service conditions. Valvoline VR-1 Racing Motor Oil is recommended for engines burning gasoline and full or partial alcohol fuels in track and street service. Valvoline VR-1 Racing Motor Oil is for use in any car, light truck, van, or SUV where API "SN" is recommended (see proper viscosity grade below).

Valvoline VR-1 Racing Motor Oil is not recommended for use in wet clutches (use Valvoline 4-Stroke Motorcycle Oil).

#### The Valvoline VR-1 Racing Motor Oil Advantages

- The #1 selling Racing Oil of all time and race track proven.
- Protects against high-temperature deposits for a cleaner engine.
- ZDDP additive provides tough anti-wear protection.
- Enhanced with fricition modifier to improve horsepower.
- · Formulated with enhanced anti-foam system.

| Approvals/Performance Levels | Viscosity Grade/O | ther           | *************************************** |
|------------------------------|-------------------|----------------|-----------------------------------------|
| API SN/SM/SL                 |                   | 20W-50         |                                         |
| API SH*                      |                   | 20W-50         |                                         |
| API SG*                      | 10W-30            | 20W-50         |                                         |
| API CD/CF*                   | 10W-30            | 20W-50         |                                         |
| Test                         | 10W-30            | 20W-50         |                                         |
| Vis @ 100°C (cSt)            | 11.50             | 20.5           |                                         |
| Vis @ 40°C (cSt)             | 77.0              | 181.8          |                                         |
| Viscosity Index              | 143               | 132            |                                         |
| Spec Gravity @ 60°F          | 0.8722            | 0.888          |                                         |
| Density (lbs/gal)            | 7.27              | 7.39           |                                         |
| Total Base No.               | 8.5               | 8.5            |                                         |
| Flash COC (°C)               | 212               | 248            |                                         |
| Pour Point (°C)              | -33               | -24            |                                         |
| CCS cP (°C)                  | 6200 (-25°C)      | 8000 (-15°C)   |                                         |
| MRV TP-1 cP (°C)             | 20,000 (-30°C)    | 27,000 (-20°C) |                                         |
| NOACK % off @ 250°C          | <15               | <15            |                                         |
| Sulfated Ash                 | 1                 | 1              |                                         |
| Zinc/Phosphorus              | 0.14/0.13         | 0. 14/0.13     |                                         |
| Calcium                      | 0.210             | 0.210          |                                         |
| Sodium                       | 0.049             | 0.049          |                                         |

<sup>\*</sup> Obsolete Category

This information only applies to products manufactured in the following location(s): USA, Canada

Effective Date: 02-09-2015

Replaces: 12-31-2015

Author's Initials: EMF Rev. Code 006



MATERIAL SAFETY DATA SHEET

The Valvoline Company

Date Prepared: 01/14/02 Date Printed: 09/03/03

MSDS No: 505.0091437-009.011

HIGH PERFORMANCE GEAR OIL SAE 80W90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: HIGH PERFORMANCE GEAR OIL SAE 80W90

SAP Material No: NP75213

General or Generic ID: PETROLEUM BASED-LUBRICATING OIL Telephone Numbers

The Valvoline Company

1-800-274-5263 Emergency:

Page 001

P.O. Box 14000

Lexington, KY 40512

Information: 1-859-357-7206

COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number % (by Ingredient(s)

weight) 

ALIPHATIC PETROLEUM DISTILLATE

87.0- 97.0

GEAR OIL ADDITIVE

3.6- 14.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Unlikely to cause eye irritation or injury.

Skin

Prolonged or repeated contact may dry and crack the skin.

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Date Prepared: 01/14/02

Date Printed: 09/03/03 MSDS No: 505.0091437-009.011

HIGH PERFORMANCE GEAR OIL SAE 80W90

Page 002

Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Symptoms of Exposure

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) Target Organ Effects

No data

Developmental Information

No data

Cancer Information

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

Other Health Effects

No data

Primary Route(s) of Entry

Skin contact.

#### 4. FIRST AID MEASURES

Eyes

If eye contact with liquid occurs, hold eyelids apart and flush eyes gently with lukewarm water. Seek immediate medical attention.

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MATERIAL SAFETY DATA SHEET

The Valvoline Company

Date Prepared: 01/14/02

Date Printed: 09/03/03

MSDS No: 505.0091437-009.011

HIGH PERFORMANCE GEAR OIL SAE 80W90

Skin

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

Swallowing

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

Inhalation

First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

Note to Physicians

Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin.

#### 5. FIRE FIGHTING MEASURES

Flash Point

300.0 F (148.8 C) COC

Explosive Limit

Not applicable

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Date Prepared: 01/14/02 Date Printed: 09/03/03

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HIGH PERFORMANCE GEAR OIL SAE 80W90

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.

Extinguishing Media

regular foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter.

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

#### 6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occured. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

# 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. Avoid prolonged or repeated contact.

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HIGH PERFORMANCE GEAR OIL SAE 80W90

Storage

Keep containers closed when not in use.

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Page 005

Eye Protection

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Skin Protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product.

Respiratory Protections

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m3, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.) Engineering Controls

Not required under normal conditions of use. However, if unusual operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV (s).

Exposure Guidelines

Component

\_\_\_\_\_\_

AMBER

ALIPHATIC PETROLEUM DISTILLATE No exposure limits established GEAR OIL ADDITIVE No exposure limits established

MATERIAL SAFETY DATA SHEET The Valvoline Company

Date Prepared: 01/14/02

Date Printed: 09/03/03 MSDS No: 505.0091437-009.011

HIGH PERFORMANCE GEAR OIL SAE 80W90

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PHYSICAL AND CHEMICAL PROPERTIES Boiling Point (for component) > 425.0 F (218.3 C) Vapor Pressure Not applicable Specific Vapor Density No data Specific Gravity .890 @ 60.00 F Liquid Density 7.480 lbs/gal @ 60.00 F .890 kg/l @ 15.60 C Percent Volatiles (Including Water) No data Evaporation Rate Appearance State LIQUID Physical Form No data Color

Odor

PETROLEUM

MATERIAL SAFETY DATA SHEET

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HIGH PERFORMANCE GEAR OIL SAE 80W90

рН

Not applicable

Viscosity

14.0 - 15.0 cst @

100 C

Page 007

Page 008

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various

hydrocarbons.

Chemical Stability

Stable. Avoid heat, open flame, and prolonged storage at elevated

temperatures.

Incompatibility

Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

MATERIAL SAFETY DATA SHEET

The Valvoline Company

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Date Printed: 09/03/03

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HIGH PERFORMANCE GEAR OIL SAE 80W90

13. DISPOSAL CONSIDERATION

Waste Management Information

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

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this

product are listed.

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

MATERIAL SAFETY DATA SHEET

The Valvoline Company Page 009

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HIGH PERFORMANCE GEAR OIL SAE 80W90

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed() Fire() Reactive() Sudden

Release of Pressure()

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

AICS (AUSTRALIA) The intentional ingredients of this product are listed.

DSL (CANADA) The intentional ingredients of this product are listed.

ECL (SOUTH KOREA) The intentional ingredients of this product are listed.

ENCS (JAPAN) The intentional ingredients of this product are listed.

PICCS (PHILIPPINES) The intentional ingredients of this product are listed.

State and Local Regulations California Proposition 65

None

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.

are listed.

EINECS (EUROPE) The intentional ingredients of this product are listed.

ENCS (JAPAN) The intentional ingredients of this product are listed.

MATERIAL SAFETY DATA SHEET

The Valvoline Company

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Date Prepared: 03/21/01 Date Printed: 01/02/02

MSDS No: 505.0091437-009.010

HIGH PERFORMANCE GEAR OIL SAE 80W90

PICCS (PHILIPPINES) The intentional ingredients of this product are listed.

State and Local Regulations
California Proposition 65

None

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.

<sup>16.</sup> OTHER INFORMATION

|  |  | 0 |
|--|--|---|
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| Valvoline™ HD SAE 75W-90 SYNTHETIC GEAR<br>OIL | Version: 1.0              |
| VV700285M                                      |                           |

29 CFR 1910.1200 (OSHA HazCom 2012)

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Valvoline™ HD SAE 75W-90 SYNTHETIC GEAR OIL

#### Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data

sheet

Ashland

P.O. Box 2219

Columbus, OH 43216 United States of America

EHS Customer Requests@ashland.com

Emergency telephone number

1-800-ASHLAND (1-800-274-5263)

**Regulatory Information Number** 

1-800-325-3751

**Product Information** 

614-790-3333

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification

Skin sensitization

: Category 1

GHS Label element

Hazard pictograms



Signal Word

: Warning

Hazard Statements

: May cause an allergic skin reaction.

**Precautionary Statements** 

: If medical advice is needed, have product container or label at

hand.

Keep out of reach of children. Read label before use.

Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing must not be allowed out of the

workplace.

Wear protective gloves.

Response:

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

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If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

#### Hazardous components

| Chemical Name                             | CAS-No.    | Classification             | Concentration (%) |
|-------------------------------------------|------------|----------------------------|-------------------|
| OLEFINSULFIDE                             | 68937-96-2 | Skin Sens. 1B; H317        | 5.00              |
|                                           |            | Aquatic Chronic 3;<br>H412 |                   |
| N-PHENYL-1-NAPHTHYLAMINE                  | 90-30-2    |                            | 0.99              |
| MALLI I I I I I I I I I I I I I I I I I I | 4          | Acute Tox. 4; H302         | 0.55              |
|                                           |            | Skin Sens. 1; H317         |                   |
|                                           |            | STOT RE 2; H373            |                   |
|                                           |            | j                          | A                 |
|                                           |            | 1                          | 1                 |

#### **SECTION 4. FIRST AID MEASURES**

General advice

: Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled

: If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

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with soap and water.

Wash contaminated clothing before re-use.

In case of eye contact

Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: May cause an allergic skin reaction. No symptoms known or expected.

Notes to physician

: No hazards which require special first aid measures.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide oxides of sulfur, nitrogen and phosphorus

Sulphur oxides

Specific extinguishing

methods

.

Product is compatible with standard fire-fighting agents.

Further information

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information

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

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Container hazardous when empty.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

**Engineering measures** 

: 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.

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# Personal protective equipment

Hand protection

Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection

: Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

: Wear as appropriate:

impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid

Colour

: amber

Odour

: pungent

Odour Threshold

: No data available

pΗ

: No data available

No data available

: No data available

Flash point

: 419 °F / 215 °C

Method: Closed Cup

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: No data available

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Relative vapour density

: No data available

Relative density

: No data available

Density

: 0.879 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility

: insoluble

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: 122 mm2/s (40 °C)

Oxidizing properties

: No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: excessive heat

Incompatible materials

: Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide oxides of sulfur, nitrogen and phosphorus

Sodium oxides

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact

Eye Contact

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Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

Remarks: Not toxic, not known to be toxic, not expected to be

toxic by Ingestion

Acute inhalation toxicity : Remarks: Not toxic, not known to be toxic, not expected to be

toxic by Inhalation Mild respiratory irritant

Components:

N-PHENYL-1-NAPHTHYLAMINE:

Acute oral toxicity : LD 50 (Rat, Male): ca. 1,625 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Not irritating to skin

Remarks: May cause skin irritation in susceptible persons.

Components:

**OLEFINSULFIDE:** 

Result: Mildly irritating to skin

N-PHENYL-1-NAPHTHYLAMINE:

Species: Rabbit

Method: OECD Test Guideline 404 Result: Mildly irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: Mildly irritating to eyes

Remarks: Unlikely to cause eye irritation or injury.

Components:

**OLEFINSULFIDE:** 

Result: Mildly irritating to eyes

N-PHENYL-1-NAPHTHYLAMINE: Result: Mildly irritating to eyes

Method: OECD Test Guideline 405

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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: OLEFINSULFIDE:

Assessment: The product is a skin sensitiser, sub-category 1B.

N-PHENYL-1-NAPHTHYLAMINE: Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

## 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.

Components:

N-PHENYL-1-NAPHTHYLAMINE:

Exposure routes: Ingestion Target Organs: Blood

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

#### Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

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.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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

by NTP.

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#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### Components:

**OLEFINSULFIDE:** 

Ecotoxicology Assessment

Acute aquatic toxicity

: Harmful to aquatic life.

Chronic aquatic toxicity

: Harmful to aquatic life with long lasting effects.

N-PHENYL-1-NAPHTHYLAMINE:

Toxicity to fish

: LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.44 - 0.74 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 0.3 - 0.68 mg/l

Exposure time: 48 h Test Type: static test

# Persistence and degradability

# Components:

N-PHENYL-1-NAPHTHYLAMINE:

Biodegradability

: Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301C

#### Bioaccumulative potential

#### Components:

N-PHENYL-1-NAPHTHYLAMINE:

Partition coefficient: n-

: log Pow: 4.20

octanol/water

# Mobility in soil

#### Components:

No data available

#### Other adverse effects

No data available

#### Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

#### Components:

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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

General advice

: The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

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**

## International transport regulations

# REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD | SUBSIDIARY | PACKING | MARINE      |
|-----------|----------------------|---------|------------|---------|-------------|
|           |                      | CLASS   | HAZARDS    | GROUP   | POLLUTANT / |
|           |                      |         |            |         | LTD. QTY.   |

#### U.S. DOT - ROAD

| <u> </u>                                        |                                         |
|-------------------------------------------------|-----------------------------------------|
| No. 4 de la |                                         |
| Not dangerous goods                             |                                         |
| 7 7                                             | *************************************** |
|                                                 |                                         |

#### U.S. DOT - RAIL

| Not dangerous goods |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | THE THE PROPERTY OF THE PROPER |

# U.S. DOT - INLAND WATERWAYS

| Not dangerous goods |  |
|---------------------|--|
|                     |  |
|                     |  |
|                     |  |
|                     |  |

#### TRANSPORT CANADA - ROAD

| Not dangerous goods |  |
|---------------------|--|
|                     |  |

#### TRANSPORT CANADA - RAIL

Not dangerous goods

# TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

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#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

# MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND

WASTES

Not dangerous goods

#### \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

| Marine pollutant | <br>no |  |
|------------------|--------|--|
|                  |        |  |

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.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards

: Acute Health 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.

Pennsylvania Right To Know

PROPRIETARY SYNTHETIC GEAR

Not Assigned

90.00 -

**LUBRICANT** 

100.00 %

MIXTURE OF OLEFIN SULFIDE, H2OP4 ESTER, AMINE SALTS, ALKYLSULFIDE,

Not Assigned

10.00 - 20.00 %

ALKENYLAMIDE AND OTHER

**INGREDIENTS** 

**OLEFINSULFIDE** 

68937-96-2

5.00 - 10.00 %

New Jersey Right To Know

PROPRIETARY SYNTHETIC GEAR **LUBRICANT** 

Not Assigned

90.00 -100.00 %

| ASHLAND.                                       | Page: 12                  |
|------------------------------------------------|---------------------------|
| SAFETY DATA SHEET                              | Revision Date: 05/22/2015 |
|                                                | Print Date: 5/28/2015     |
|                                                | SDS Number: R0321818      |
| Valvoline™ HD SAE 75W-90 SYNTHETIC GEAR<br>OIL | Version: 1.0              |
| VV700285M                                      |                           |

MIXTURE OF OLEFIN SULFIDE, H2OP4

Not Assigned

10.00 - 20.00 %

ESTER, AMINE SALTS, ALKYLSULFIDE, ALKENYLAMIDE AND OTHER

**INGREDIENTS** 

**OLEFINSULFIDE** 

68937-96-2

5.00 - 10.00 %

California Prop 65

WARNING! This product contains a chemical known to the

State of California to cause cancer. 2-NAPHTHALENAMINE

91-59-8

The components of this product are reported in the following inventories:

**TSCA** 

: On TSCA Inventory

DSL

: This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

**AUSTR** 

: Not in compliance with the inventory

**NZIOC** 

: Not in compliance with the inventory

**ENCS** 

: Not in compliance with the inventory

KECL

: Not in compliance with the inventory

**PICCS** 

: Not in compliance with the inventory

**IECSC** 

: On the inventory, or in compliance with the inventory

#### Inventories

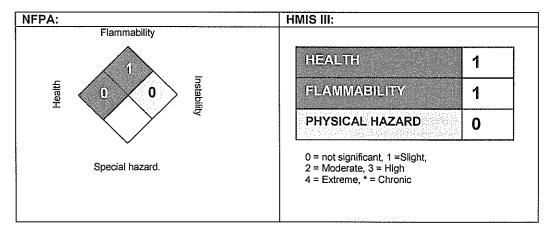
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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|                                                | SDS Number: R0321818      |
| Valvoline™ HD SAE 75W-90 SYNTHETIC GEAR<br>OIL | Version: 1.0              |
| VV700285M                                      |                           |

#### **SECTION 16. OTHER INFORMATION**

# **Further information**

Revision Date: 05/22/2015



#### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

## Full text of H-Statements referred to under sections 2 and 3.

| H302 | Harmful if swallowed.                                             |
|------|-------------------------------------------------------------------|
| H317 | May cause an allergic skin reaction.                              |
| H373 | May cause damage to organs through prolonged or repeated exposure |
|      | if swallowed.                                                     |
| H412 | Harmful to aquatic life with long lasting effects.                |

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

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|                                                | SDS Number: R0321818      |
| Valvoline™ HD SAE 75W-90 SYNTHETIC GEAR<br>OIL | Version: 1.0              |
| VV700285M                                      |                           |

FG: Food grade

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

H-statement: Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System

# 1/400

# SAFETY DATA SHEET

Issue Date 16-Mar-2016

Revision Date 16-Jun-2015

Version 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

**Product Name** 

Bactizyme Bioenzymatic Drain Cleaner/Maintainer

Other means of identification

Product Code Synonyms NL044 None

Details of the supplier of the safety data sheet

**Company Name** 

Nyco Products Company 5332 Dansher Road Countryside, IL 60525 (708) 579-8100 nycoproducts.com

Emergency telephone number

**Emergency Telephone** 

Chemtrec 1-800-424-9300

Classification

OSHA Regulatory Status This product has been clas

Acute toxicity - Oral
Acute toxicity - Dermal

Label elements

Appearance Slightly haz

Precautionary Statemen
Immediately call a POISO
Specific Treatment (See S

unication Standard (29 CFR 1910.1200)

Not classified Not classified

Odor Fresh & Clean

Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity

0.1% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name          | CAS No.   | Weight-% | Trade Secret |
|------------------------|-----------|----------|--------------|
| Nonylphenol Ethoxylate | 9016-45-9 | 1-5      | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

First aid measures

Skin Contact Wash off immediately with plenty of water. Wash skin with soap and water.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects are described in Section 11: Toxicology

Information.

Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No Information available.

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.

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 Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials None known based on information supplied.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Showers, Eyewash stations & Ventilation systems. **Engineering Controls** 

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses if handling large volume.

Skin and body protection Wear protective gloves and protective clothing if needed.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Do not eat, drink or smoke when using this product. Handle in accordance with good

industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

Appearance Slightly hazy Green

Green Color Odor Fresh & Clean

Odor threshold No Information available

Property Remarks • Method Values

pН 7.0 - 9.01.00 Specific Gravity

> 25 cP @ 25°C Viscosity Melting point/freezing point No Information available

Flash point None

Boiling point / boiling range 210 °F

No Information available **Evaporation rate** Flammability (solid, gas) No data available Flammability Limits in Air

Upper flammability limit: No Information available Lower flammability limit: No Information available Vapor pressure No Information available Vapor density No Information available

Water solubility Complete

No Information available Partition coefficient Autoignition temperature No Information available **Decomposition temperature** No Information available

#### Other Information

Density Lbs/Gal

8.33

VOC Content (%) Not Applicable

#### 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

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

**Hazardous Decomposition Products** 

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information Maybe harmful by inhalation, ingestion, in contact with eyes and skin,

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact Contact with eyes may cause irritation.

Skin Contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion May cause gastro intestinal irritation.

| Chemical Name          | Oral LD50                       | Dermai LD50                       | Inhalation LC50 |
|------------------------|---------------------------------|-----------------------------------|-----------------|
| Nonylphenol Ethoxylate | = 2590 mg/kg (Rat) = 1310 mg/kg | = 1780 μL/kg (Rabbit) = 2 mL/kg ( | •               |
| 9016-45-9              | (Rat)                           | 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.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No Information available.
No Information available.
No Information available.

# Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0.1% of the mixture consists of ingredient(s) of unknown toxicity

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name                       | Algae/aquatic plants                            | Fish                                                                                                | Crustacea                            |
|-------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|
| Nonylphenol Ethoxylate<br>9016-45-9 | 77                                              | 5: 96 h Fish mg/L LC50                                                                              |                                      |
| Tetrasodium EDTA<br>64-02-8         | 1.01: 72 h Desmodesmus<br>subspicatus mg/L EC50 | 59.8: 96 h Pimephales promelas<br>mg/L LC50 static 41: 96 h Lepomis<br>macrochirus mg/L LC50 static | 610: 24 h Daphnia magna mg/L<br>EC50 |

#### Persistence and degradability

No Information available.

#### **Bioaccumulation**

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.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

# 14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

<u>DOT</u>

Not regulated

**TDG** 

Not regulated

# 15. REGULATORY INFORMATION

International Inventories

TSCA DSL/NDSL Complies Complies

Com

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### 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 No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No

Revision Date 16-Jun-2015

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

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

| 1     | A I | O | T      | Н | = | p   | I٨  | F | n | P | М   | Δ.  | T   | N   |  |
|-------|-----|---|--------|---|---|-----|-----|---|---|---|-----|-----|-----|-----|--|
| 92865 |     | _ | e 10 i |   | 二 | 1 1 | 111 |   | _ | • | EVI | P** | 100 | LV. |  |

NFPA Health hazards 0

Flammability 0

Instability 0

Physical and Chemical

Properties Yes

HMIS

Health hazards 0

Flammability 0

Physical hazards 0

Personal protection B

Issue Date Revision Date 16-Mar-2016 16-Jun-2015

Revision Note

No Information available

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 Name: WD-40 Multi-Use Product Aerosol
NOT FOR SALE IN CALIFORNIA

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

Corrosion

Restrictions on Use: None identified

SDS Date Of Preparation: 07/20/2014

Manufacturer: WD-40 Company

Address: 1061 Cudahy Place (92110)

P.O. Box 80607

San Diego, California, USA

92138 -0607

Telephone:

Emergency only: 1-888-324-7596 (PROSAR)

Information: 1-888-324-7596

Chemical Spills: 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)

#### 2 - Hazards Identification

#### Hazcom 2012/GHS Classification:

Flammable Aerosol Category 1

Gas Under Pressure: Compressed Gas

Aspiration Toxicity Category 1

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:







#### DANGER!

Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

# Prevention

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.

## Response

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

# Storage

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

#### Disposal

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

3 - Composition/Information on Ingredients

| Ingredient            | CAS#       | Weight Percent | US Hazcom 2012/ GHS<br>Classification |  |  |
|-----------------------|------------|----------------|---------------------------------------|--|--|
| Aliphatic Hydrocarbon | 64742-47-8 | 45-50          | Flammable Liquid Category 3           |  |  |

|                           |                                                                    |       | Aspiration Toxicity Category 1                             |
|---------------------------|--------------------------------------------------------------------|-------|------------------------------------------------------------|
| Petroleum Base Oil        | 64742-56-9<br>64742-65-0<br>64742-53-6<br>64742-54-7<br>64742-71-8 | <25   | Not Hazardous                                              |
| LVP Aliphatic Hydrocarbon | 64742-47-8                                                         | 12-18 | Aspiration Toxicity Category 1                             |
| Carbon Dioxide            | 124-38-9                                                           | 2-3   | Simple Asphyxiant<br>Gas Under Pressure,<br>Compressed Gas |
| Non-Hazardous Ingredients | Mixture                                                            | <10   | Not Hazardous                                              |

Note: The exact percentages are a trade secret.

# 4 - First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention. Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Signs and Symptoms of Exposure**: May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Skin contact may cause drying of the skin.

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for ingestion.

# 5 - Fire Fighting Measures

**Suitable (and unsuitable) Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. **Specific Hazards Arising from the Chemical:** Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-Fighters**: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

# 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

Methods and Materials for Containment/Cleanup: Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

# 7 - Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

Conditions for Safe Storage: Store in a cool, well-ventilated area, away from incompatible materials Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8 - Exposure Controls/Personal Protection

| Chemical                  | Occupational Exposure Limits                                 |
|---------------------------|--------------------------------------------------------------|
| Aliphatic Hydrocarbon     | 1200 mg/m3 TWA (manufacturer recommended)                    |
| Petroleum Base Oil        | 5 mg/m3 TWA, 10 mg/m3 STEL ACGIH TLV<br>5 mg/m3 TWA OSHA PEL |
| LVP Aliphatic Hydrocarbon | 1200 mg/m3 TWA (manufacturer recommended)                    |
| Carbon Dioxide            | 5000 ppm TWA (OSHA/ACGIH), 30,000 ppm STEL (ACGIH)           |
| Non-Hazardous Ingredients | None Established                                             |

# The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate Engineering Controls: Use in a well-ventilated area.

**Personal Protection:** 

Eye Protection: Avoid eye contact. Always spray away from your face.

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations

where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

# For Bulk Processing or Workplace Use the Following Controls are Recommended

Appropriate Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

# 9 - Physical and Chemical Properties

| Appearance:               | Light amber liquid                           | Flammable Limits:<br>(Solvent Portion)      | LEL: 0.6% UEL: 8%             |
|---------------------------|----------------------------------------------|---------------------------------------------|-------------------------------|
| Odor:                     | Mild petroleum odor                          | Vapor Pressure:                             | 95-115 PSI @ 70°F             |
| Odor Threshold:           | Not established                              | Vapor Density:                              | Greater than 1 (air=1)        |
| pH:                       | Not Applicable                               | Relative Density:                           | 0.8 - 0.82 @ 60°F             |
| Melting/Freezing Point    | Not established                              | Solubilities:                               | Insoluble in water            |
| Boiling Point/Range:      | 361 - 369°F (183 -<br>187°C)                 | Partition Coefficient; n-<br>octanol/water: | Not established               |
| Flash Point:              | 122°F (49°C) Tag Closed<br>Cup (concentrate) | Autoignition Temperature:                   | Not established               |
| Evaporation Rate:         | Not established                              | Decomposition Temperature:                  | Not established               |
| Flammability (solid, gas) | Flammable Aerosol                            | Viscosity:                                  | 2.79-2.96 cSt @ 100°F         |
| VOC:                      | 412 grams/liter (49.5%)                      | Pour Point:                                 | -63°C (-81.4°F ) ASTM<br>D-97 |

10 - Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: May react with strong oxidizers generating heat.

Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

#### 11 – Toxicological Information

#### Symptoms of Overexposure:

**Inhalation:** High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

**Skin Contact:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.

**Ingestion:** This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP. ACGIH or OSHA.

Reproductive Toxicity: None of the components is considered a reproductive hazard.

#### **Numerical Measures of Toxicity:**

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

#### 12 – Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available, however components of this product are not expected to be harmful to aquatic organisms

Persistence and Degradability: Component are readily biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.

Mobility in Soil: No data available
Other Adverse Effects: None known

# 13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

# 14 - Transportation Information\_

DOT Surface Shipping Description:

UN1950, Aerosols, 2.1 Ltd. Qty (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark) IMDG Shipping Description: Un1950, Aerosols, 2.1, LTD QTY

ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1 NOTE: WD-40 does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

## 15 - Regulatory Information

# U.S. Federal Regulations:

**CERCLA 103 Reportable Quantity:** This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many

states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

#### SARA TITLE III:

**Hazard Category For Section 311/312:** Acute Health, Fire Hazard, Sudden Release of Pressure **Section 313 Toxic Chemicals**: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

**EPA Toxic Substances Control Act (TSCA) Status**: All of the components of this product are listed on the TSCA inventory.

**VOC Regulations**: This product complies with the consumer product VOC limits of the US EPA and states adopting the OTC VOC rules but does not comply with CARB.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain chemicals regulated under California Proposition 65.

Canadian Environmental Protection Act: One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

Canadian WHMIS Classification: Class A (Compressed gas), Class B-5 (Flammable Aerosol)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

#### 16 – Other Information:

**HMIS Hazard Rating:** 

Health - 1 (slight hazard), Fire Hazard - 4 (severe hazard), Reactivity - 0 (minimal hazard)

Revision Date: July 20, 2014

Supersedes: May 23, 2014

Revision Summary: Convert to Hazcom 2012. Changes in all sections.

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

APPROVED By: I. Kowalski

Regulatory Affairs Dept.

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# MATERIAL SAFETY DATA SHEET

#### Warren Unliube, Inc.

Address:

915 E. Jefferson Ave.

West Memphls, AR 72301

Phone:

(800) 428-9284

Chemtree Number: Domestic: (800) 424-9300 International: (703) 527-3887

# PRODUCT IDENTIFICATION

Trade Name: Wearever Brake Fluid DOT 3

Date Revised: August 19, 2009

Synonyms/product Code: N.A. Chemical Name:

N.A.

DOT Hazard Class: Not Applicable

NFPA Codes: Health=2, Flammability=1, Reactivity=0

#### COMPOSITION

# Occupational Exposure Limits\*

| <u>Product</u> Wearever Brake Fluid DOT 3                   | CAS Number | <u>Wt%</u> | OSHA<br><u>PEL</u><br>N.A. | ACGII<br><u>TLV</u><br>N.A. | Other | <u>Units</u> |  |
|-------------------------------------------------------------|------------|------------|----------------------------|-----------------------------|-------|--------------|--|
| Ingredient(s):                                              |            |            |                            |                             |       |              |  |
| Blend of various<br>glycol ethers, glycol<br>and polyglycol | N.AP       | 100        | N.A.                       | N.A.                        | N.A.  | PPM          |  |

<sup>\* = 8-</sup>Hr. TWA unless otherwise specified.

<sup>\*\* =</sup> As mineral oil Mist

<sup>\*\*\* =</sup> All ingredients in this product are listed in the T.S.C.A. Inventory.

N.A. = Not Available

N.A.-P = Information is claimed proprietary by supplier.

STEL = Short Term Exposure Limit; 15 minutes.

#### PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760 mmHg: Vapor Pressure mmHg @ 20C

Solubility in H<sub>2</sub>O %:

Specific Gravity (H,O): % Volatile by Volume: Viscosity (method, temp):

401°F Melting Point: N.A. <0.1 Vapor Density (air=1): N.A. Solubie

pH: N.A.

Evaporation Rate (ethyl ether =1): N.A.

Odor: Mild ether odor

Appearance: Colorless to yellow

N.A. = Not Available

#### FIRE AND EXPLOSION DATA

Flash Point:

Flammable Limits in Air % by Vol.

Autoignition Temperature: Extinguishing Media:

>200F Lower: N.A.

1.02-1.04

N.A.

N.A.

Upper: N.A.

N.A. Dry chemical, foam, carbon dioxide.

Special Fire Fighting Procedure:

Water spray may be used to keep fire-exposed containers cool, preventing pressure buildup and explosion. Firefighters should wear self-contained breathing apparatus.

Unusual Fire or Explosion Hazard:

May ignite when sufficient beat is applied.

#### REACTIVITY DATA

Stability:

Stable

Hazardous Polymerization:

Will not occur.

Conditions to Avoid/Incompatibility:

Strong oxidizing agents, heat, spark, flame and build-up of static electricity.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, water and/or oxygenated hydrocarbons.

#### HEALTH HAZARD DATA

This product has not been tested as a whole to determine its specific health hazards. The information provided in this section is based on health hazard information on the product components.

Carcinogenicity: NTP: No

IARC Monographs: No

OSHA Regulated: No

Occupational Exposure Limits:

See COMPOSITION section.

#### Effects of Overexposure:

Acute:

Eyes:

May cause severe eye irritation and chemical burns.

Skin:

Slightly irritating to the skin. Harmful amounts may be absorbed through the skin

with extensive and prolonged contact.

Inhalation:

Exposure to vapors or mist may result in irritation of the respiratory tract,

headache, drowsiness and dizziness. High concentrations of ethylene glycol ethers may be

lethal

Ingestion:

May cause irritation of the mouth, throat, and the respiratory tract, abdominal discomfort, dizziness, lumbar pain, CNS depression, kidney and liver damage.

Chronic: Prolonged or repeated skin contact may result in toxic amounts belog absorbed through the skin.

Additional Medical and Toxicological Information:

Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected by this product. Ethylene glycol and ethylene glycol ethers have produced dose-related teratogenic effects and maternal toxicity in laboratory animals. Exposure to vapors of ethylene glycol ethers have caused testicular atrophy in laboratory animals.

#### **EMERGENCY FIRST AID PROCEDURES**

Eye Contact:

Flush thoroughly with large amounts of water for at least 15 minutes, including under the cyclids. Contact a physician immediately, preferably an Ophthalmologist. Speed and thoroughness in rinsing eyes are important to avoid permanent injury.

Skin Contact;

Remove contaminated clothing. Wash affected areas with soap and water. If irritation

occurs, get medical help. Discard contaminated shoes.

Inhalation:

Remove to fresh air. Apply artificial respiration if not breathing. Get medical attention.

Ingestion:

Do not induce vomiting. Get immediate medical attention.

#### SPECIAL PROTECTION INFORMATION

Eye Protection:

Remove contact lenses and wear chemical safety goggles where contact with liquid or mist

may occur.

Skin Protection:

Wear impervious gloves when contact with skin may occur. Use face shields where splashing may occur. Wash with soap and water before eating, drinking or smoking.

Launder contaminated clothing before reuse. Discard contaminated shoes.

Inhalation:

Use approved respiratory protective equipment for cleaning large spills or entry into large tanks, vessels or other confined spaces or in situations where exposure may exceed occupational exposure levels. Avoid inhalation of vapors or mists generated by

heating or violent agitation of this product.

Ventilation:

Provide adequate ventilation 1) to keep mist or vapors below occupational exposure levels and 2) to prevent the formation of an oxygen deficient atmosphere, particularly in a confined

space area.

#### Wearever Brake Fluid DOT 3

#### SPILL OR LEAK AND DISPOSAL PROCEDURES

Spill Procedures:

Remove sources of heat or ignition including internal combustion engines and power tools. Remove spill with vacuum trucks or pump and soak up residue with and absorbent. Use approved respirator where occupational exposure limits may be exceeded.

Waste Disposal:

Dispose through a licensed waste disposal company. Follow federal, state and local regulation.

#### SPECIAL PRECAUTIONS AND COMMENTS

Storage Requirements:

Store in tightly closed containers in an dry cool place, away from incompatible materials or sources of heat, ignition or strong oxidizers. Ground and bond all transfer and storage equipment. Empty containers may contain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, puncture, incinerate, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition.

#### SARA TITLE III INFORMATION

<u>Chronic</u>

Fire

Pressure

Reactive

#### SARA Hazardous Substances

| Ingredient                       | CAS NO.             | %, WT       | Sec 313 | Sec 302 | RO.1b | TPO, Ib |
|----------------------------------|---------------------|-------------|---------|---------|-------|---------|
| Ethylene glycol<br>Glycol Ethers | 110-80-5<br>Various | N.A.<br>>75 | x<br>x  |         |       |         |

Key: Sec 313

= Toxic Chemicals, Section 313

Sec 302

= Extremely Hazardous Substances (EHS)

RQ = Reportable Quantity of EHS

TPQ

= Threshold Planning Quantity of EHS

## CALIFORNIA PROPOSITION 65 WARNING

Chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be found in the petroleum products. Although it is possible to sufficiently refine the petroleum products to remove the potential for cancer, we are advising that one or more of the listed chemicals may be present in some detectable quantities. Read and follow directions and use care when handling these petroleum products.

This 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. Such information is to the best of this company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or GUARANTEE IS MAKE AS TO THE ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABLENESS AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

# 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

Chemical name CAS number Ethyl Mercaptan 75-08-1 < 0.005

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.

Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"), Very high

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

Indication of immediate medical attention and special Exposure may aggravate pre-existing respiratory disorders. Treat symptomatically.

exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.

treatment needed 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,

Specific hazards arising from the chemical

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

Move container from fire area if it can be done without risk.

Fire-fighting equipment/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 SDS US 919503 Version #: 03 Revision date: 25-March-2015 Issue date: 05-May-2014 2/8

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                        | Туре          | Value      |  |
| Ethyl Mercaptan (CAS<br>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                        | Туре          | Value      |  |
| Ethyl Mercaptan (CAS<br>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                        | Туре          | Value      |  |
|                                  |               |            |  |

Biological limit values

75-08-1)

Ethyl Mercaptan (CAS

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

recommended exposure limits. Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved safety glasses or goggles.

Ceiling

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

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

1.3 mg/m3

0.5 ppm

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.

Color

Colorless.

Odor

Propane

Rotten egg.

919503 Version #: 03 Revision date: 25-March-2015 Issue date: 05-May-2014 Odor threshold Not available.
pH 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 127 psig (21°C / 70°F)

Vapor density 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.

Conditions to avoid Heat, flames and sparks.

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 Contact with liquefied gas may cause frostbite.

Eye contact 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

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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                                                                                               |                                  |                                                        |
| LC50                                                                                                     | Rat                              | > 1442 mg/l, 15 Minutes                                |
| Propylene (CAS 115-07-1)                                                                                 |                                  |                                                        |
| Acute                                                                                                    |                                  |                                                        |
| Inhalation                                                                                               |                                  | 000 // 011                                             |
| LC50                                                                                                     | Mouse                            | 680 mg/l, 2 Hours                                      |
|                                                                                                          | Rat                              | 658 mg/l, 4 Hours                                      |
| Additives                                                                                                | Species                          | Test Results                                           |
| Ethyl Mercaptan (CAS 75-08-1)                                                                            |                                  |                                                        |
| Acute                                                                                                    |                                  |                                                        |
| Dermal                                                                                                   | Dot                              | > 0000                                                 |
| LD50                                                                                                     | Rat                              | > 2000 mg/kg                                           |
| Inhalation<br>LC50                                                                                       | Maura                            | 4420                                                   |
|                                                                                                          | Mouse                            | 4420 mg/l, 4 Hours                                     |
| <i>Oral</i><br>LD50                                                                                      | Rat                              | 692 mg/kg                                              |
|                                                                                                          |                                  | 682 mg/kg                                              |
| Skin corrosion/irritation                                                                                |                                  | ht cause frostbites, in some cases with tissue damage. |
| Serious eye damage/eye<br>irritation                                                                     | Direct contact with liquefied ga | as may cause eye damage from frostbite.                |
| Respiratory or skin sensitization                                                                        | •                                |                                                        |
| Respiratory sensitization                                                                                | Not classified.                  |                                                        |
| Skin sensitization                                                                                       | Not classified.                  |                                                        |
| Germ cell mutagenicity                                                                                   | Not classified.                  |                                                        |
| Carcinogenicity                                                                                          | Not classified.                  |                                                        |
| <del>-</del> •                                                                                           | Evaluation of Carcinogenicity    |                                                        |
| Propylene (CAS 115-07-1                                                                                  |                                  | 3 Not classifiable as to carcinogenicity to humans.    |
| Reproductive toxicity                                                                                    | Not classified.                  | o Not oldosinable as to carolinggenionly to numario.   |
| Specific target organ toxicity -                                                                         | Not classified.                  |                                                        |
| single exposure                                                                                          |                                  |                                                        |
| Specific target organ toxicity - repeated exposure                                                       | Not classified.                  |                                                        |
| Aspiration hazard                                                                                        | Not classified.                  |                                                        |
| 12. Ecological information                                                                               | 1                                |                                                        |
| Ecotoxicity                                                                                              | Not expected to be harmful to    | aquatic organisms.                                     |
| Persistence and degradability                                                                            | The product is readily biodegr   | adable.                                                |
| Bioaccumulative potential                                                                                | The product is not expected to   | bioaccumulate.                                         |
| Partition coefficient n-octan<br>Propane (CAS Mixture)<br>Butane (CAS 106-97-8)<br>Propane (CAS 74-98-6) | ol / water (log Kow)             | 1.77<br>2.89<br>2.36<br>1.77                           |
| Propylene (CAS 115-07-1)                                                                                 |                                  |                                                        |
| Mobility in soil                                                                                         | May evaporate quickly.           |                                                        |

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

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant Nο

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

Special provisions 19, T50 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 2.1 Label(s)

Packing group Not applicable.

**Environmental hazards** Nα **ERG Code** 10L

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

**IMDG** 

UN1075 **UN number** 

UN proper shipping name Petroleum Gases, liquefied

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s)

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No F-D, \$-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.

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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)

# CERCLA Hazardous Substance List (40 CFR 302.4)

Butane (CAS 106-97-8) Ethyl Mercaptan (CAS 75-08-1) Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

LISTED LISTED

LISTED 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 |      |
|----------|------|------|
| <br>     | •    | <br> |

CAS number 115-07-1

% by wt.

Propylene

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

# 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                    |

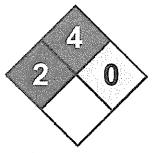
<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date05-May-2014Revision date25-March-2015

Version # 03

**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

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).

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date 13.11.2015

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: Bead Sealer
- · Article number: 14-101, 14-101A, 14-101B, 14-104, 14-104A, 14-104B
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture: Sealant
- · 1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:

31 Incorporated 100 Enterprise Dr.

Newcomerstown, OH 43832

Phone: (740) 498-8324

· 1.4 Emergency telephone number:

ChemTel Inc.

+1 (800)255-3924, +1 (813)248-0585

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361d, H400, H410.

The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H361.



Repr. 2 H361: Suspected of damaging fertility or the unborn child.



flame

Flam. Liq. 2

H225 Highly flammable liquid and vapour.



health hazard

Repr. 2

H361d Suspected of damaging the unborn child. Route of exposure: Inhalation.

STOT RE 2

H373 May cause damage to the central nervous system through prolonged or

repeated exposure. Route of exposure: Inhalation.



Aquatic Acute 1 H400

H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

(Cont'd. on page 2)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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(Cont'd. from page 1)

Trade name: Bead Sealer

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness.

· Additional information:

0 % of the mixture consists of component(s) of unknown toxicity.

There are no other hazards not otherwise classified that have been identified.

#### · 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms

The following pictogram(s) are only for use within Europe: GHS09.







GHŠ02 GHŠ07 GHŠ08 GHŠ09

#### · Signal word Danger

#### · Hazard-determining components of labelling:

toluene

natural rubber latex

heptane

#### Hazard statements

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H361.

H361: Suspected of damaging fertility or the unborn child.

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361d, H410.

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child. Route of exposure: Inhalation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

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

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

(Cont'd. on page 3)

#### according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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#### Trade name: Bead Sealer

| Doco            | (Cont'd. from page 2)                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P260            | Do not breathe mist/vapours/spray.                                                                                               |
| P264            | Wash thoroughly after handling.                                                                                                  |
| P280            | Wear protective gloves / eye protection / face protection.                                                                       |
| P233            | Keep container tightly closed.                                                                                                   |
| P243            | Take precautionary measures against static discharge.                                                                            |
| P271            | Use only outdoors or in a well-ventilated area.                                                                                  |
| P303+P361+P353  | IF ON ŠKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P305+P351+P338  | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P370+P378       | In case of fire: Use foam, powder, or carbon dioxide for extinction.                                                             |
| P304+P340       | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P314            | Get medical advice/attention if you feel unwell.                                                                                 |
| P362+P364       | Take off contaminated clothing and wash it before reuse.                                                                         |
| P403+P235       | Store in a well-ventilated place. Keep cool.                                                                                     |
| P501            | Dispose of contents/container in accordance with local/regional/national/international regulations.                              |
| BIEDA (former / | -1- A A                                                                                                                          |

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 30 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- \* Indicates a long term health hazard from repeated or prolonged exposures.
- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable. · vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

- · Description: Mixture of substances listed below with nonhazardous additions.

| Dangerous components:                                            |                                                                                                                                 |               |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------|
| CAS: 108-88-3<br>EINECS: 203-625-9<br>Index number: 601-021-00-3 | toluene      Flam. Liq. 2, H225     Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304     Skin Irrit. 2, H315; STOT SE 3, H336 | 50-100%       |
|                                                                  | (Conl                                                                                                                           | d. on page 4) |

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date 13.11.2015 Revision: 13.11.2015

Trade name: Bead Sealer

|                            | (Cont'd                                                                                                                                                                         | from page 3) |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| CAS: 142-82-5              | heptane                                                                                                                                                                         | 25-50%       |
| Index number: 601-008-00-2 | <ul> <li>♠ Flam. Liq. 2, H225</li> <li>♠ Asp. Tox. 1, H304</li> <li>♠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410</li> <li>♠ Skin Irrit. 2, H315; STOT SE 3, H336</li> </ul> |              |
|                            | natural rubber latex                                                                                                                                                            | <10%         |
| EINECS: 232-689-0          | Skin Sens. 1B, H317                                                                                                                                                             |              |

#### Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

#### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

#### · After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.

A person vomiting while laying on their back should be turned onto their side.

Do not induce vomiting; call for medical help immediately.

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

Headache

Dizziness

Coughing

Cramp

Nausea

Allergic reactions

Gastric or intestinal disorders when ingested.

Disorientation

#### · Hazards

Danger of convulsion.

Danger of impaired breathing.

Danger of disturbed cardiac rhythm.

(Cont'd. on page 5)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Bead Sealer

(Cont'd, from page 4)

Condition may deteriorate with alcohol consumption.

May be harmful in contact with skin.

May be harmful if inhaled.

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Foam

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

Gaseous extinguishing agents

Water haze or fog

- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information Eliminate all ignition sources if safe to do so.

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

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Protect from heat.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Allow to solidify. Pick up mechanically.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Cont'd. on page 6)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Bead Sealer

See Section 13 for disposal information.

(Cont'd. from page 5)

#### SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Use only in well ventilated areas.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may form in empty receptacles.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see section 7.

| PEL (USA) S   | No. of Lawrence C 000 F000                                                                  |   |
|---------------|---------------------------------------------------------------------------------------------|---|
| L             | Short-term value: C 300; 500* ppm<br>.ong-term value: 200 ppm<br>10-min peak per 8-hr shift |   |
|               | Short-term value: 560 mg/m³, 150 ppm<br>.ong-term value: 375 mg/m³, 100 ppm                 |   |
| , , ,         | ong-term value: 75 mg/m³, 20 ppm<br>BEI                                                     | , |
| EL (Canada) L | .ong-term value: 20 ppm<br>ਵ                                                                |   |
| EV (Canada) L | .ong-term value: 20 ppm                                                                     |   |

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Bead Sealer

| L                                       | Trade Haitle, Dea | iu ocaici                                                                                    |       |
|-----------------------------------------|-------------------|----------------------------------------------------------------------------------------------|-------|
| [                                       | TOTAL CO.         | (Cont'd. from page 6                                                                         | <br>) |
|                                         | PEL (USA)         | Long-term value: 2000 mg/m³, 500 ppm                                                         | ٦     |
|                                         | REL (USA)         | Short-term value: C 1800* mg/m³, C 440* ppm<br>Long-term value: 350 mg/m³, 85 ppm<br>*15-min |       |
|                                         | TLV (USA)         | Short-term value: 2050 mg/m³, 500 ppm<br>Long-term value: 1640 mg/m³, 400 ppm                |       |
| -                                       | EL (Canada)       | Short-term value: 500 ppm<br>Long-term value: 400 ppm                                        |       |
|                                         | EV (Canada)       | Short-term value: 2,045 mg/m³, 500 ppm<br>Long-term value: 1,635 mg/m³, 400 ppm              |       |
| l                                       | 9006-04-6 na      | tural rubber latex                                                                           | 1     |
|                                         | TLV (USA)         | Long-term value: 0,0001* mg/m³<br>Skin; (SEN) NIC-DSEN, RSEN;* inh. fraction                 |       |
|                                         | EL (Canada)       | Long-term value: 0,001 mg/m³ inhalable, Skin; S                                              |       |
|                                         | EV (Canada)       | Long-term value: 0,001 mg/m³ as total proteins, inhalable, Skin                              |       |
| *************************************** | · DNELs No fu     | rther relevant information available.                                                        | _1    |
| *************************************** | · PNECs No fu     | rther relevant information available.                                                        |       |
|                                         | · Ingredients v   | with biological limit values:                                                                | 1     |
|                                         | 108-88-3 tolu     | iene                                                                                         | 1     |
| ĺ                                       | BEI (USA) 0,      |                                                                                              | 1     |
| l                                       | 1                 | edium: blood                                                                                 |       |
|                                         |                   | ime: prior to last shift of workweek<br>arameter: Toluene                                    |       |
|                                         |                   | alamotor, rotatio                                                                            |       |
|                                         | 0,                | 03 mg/L                                                                                      |       |

Medium: urine
Time: end of shift
Parameter: Toluene

0,3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Pregnant women should strictly avoid inhalation or skin contact.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

(Cont'd. on page 8)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Bead Sealer

· Respiratory protection:

(Cont'd. from page 7)

(Cont'd. on page 9)

Not required under normal conditions of use.

For spills, respiratory protection may be advisable.

Use suitable respiratory protective device when high concentrations are present.

Use suitable respiratory protective device when aerosol or mist is formed.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection:



Safety glasses

· Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures

See Section 7 for additional information.

No further relevant information available.

#### **SECTION 9: Physical and chemical properties**

| <ul> <li>9.1 Information on basic physical are General Information</li> <li>Appearance:</li> </ul>                  | nd chemical properties            |  |  |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------|--|--|
| Form:                                                                                                               | Liquid                            |  |  |
| Colour:                                                                                                             | Black                             |  |  |
| · Odour:                                                                                                            | Solvent-like                      |  |  |
| · Odour threshold:                                                                                                  | Not determined.                   |  |  |
| · pH-value:                                                                                                         | Not determined.                   |  |  |
| <ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul> | Not determined.<br>99 °C (210 °F) |  |  |
| · Flash point:                                                                                                      | -9 °C (16 °F) (TCC D56)           |  |  |
| · Flammability (solid, gaseous):                                                                                    | Not applicable.                   |  |  |
| · Auto/Self-ignition temperature:                                                                                   | 215 °C (419 °F)                   |  |  |
| · Decomposition temperature:                                                                                        | Not determined.                   |  |  |
| · Self-igniting:                                                                                                    | Product is not self-igniting.     |  |  |

£.

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Bead Sealer

|                                        | (Cont'd, from page                                                                          |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| Danger of explosion:                   | Product is not explosive. However, formation of explosive air vapour mixtures are possible. |
| Explosion limits:                      |                                                                                             |
| Lower:                                 | 1,1 Vol %                                                                                   |
| Upper:                                 | 7,0 Vol %                                                                                   |
| Oxidising properties                   | Not determined.                                                                             |
| Vapour pressure at 20 °C (68 °F):      | 48 hPa (36 mm Hg)                                                                           |
| Density at 20 °C (68 °F):              | 0,87 g/cm³ (7,26 lbs/gal)                                                                   |
| Relative density                       | Not determined.                                                                             |
| Vapour density                         | Not determined.                                                                             |
| Evaporation rate                       | Not determined.                                                                             |
| Solubility in / Miscibility with       |                                                                                             |
| water:                                 | Not miscible or difficult to mix.                                                           |
| Partition coefficient (n-octanol/water | er): Not determined.                                                                        |
| Viscosity:                             |                                                                                             |
| Dynamic:                               | Not determined.                                                                             |
| Kinematic at 20 °C (68 °F):            | 721 mm²/s (Converted from <u>5 Zahn)</u>                                                    |
| VOC content:                           | 89,1 %                                                                                      |
| VOC (California)                       | 75-90 % Wt                                                                                  |
| 9.2 Other information                  | No further relevant information available.                                                  |

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

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Used empty containers may contain product gases which form explosive mixtures with air. Flammable.

Reacts violently with oxidising agents.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Toxic fumes may be released if heated above the decomposition point.

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidising agents.

- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Carbon dioxide

Carbon monoxide

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date 13.11.2015

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Trade name: Bead Sealer

(Cont'd. from page 9)

#### SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

| · LD/LC50        | · LD/LC50 values relevant for classification: |                               |  |  |  |
|------------------|-----------------------------------------------|-------------------------------|--|--|--|
| 108-88-3 toluene |                                               |                               |  |  |  |
| Oral             | LD50                                          | 5000 mg/kg (rat)              |  |  |  |
| Dermal           | LD50                                          | 12124 mg/kg (rabbit)          |  |  |  |
| Inhalative       | LC50/4 h                                      | 5320 mg/l (mouse)             |  |  |  |
| 142-82-5         | 142-82-5 heptane                              |                               |  |  |  |
| Oral             | LD50                                          | > 5000 mg/kg (rat) (Estimate) |  |  |  |
| Inhalative       | LC50/4 h                                      | 103 mg/l (rat)                |  |  |  |
| 1333-86-4        | 1333-86-4 Carbon black                        |                               |  |  |  |
| Oral             | LD50                                          | 10000 mg/kg (rat)             |  |  |  |

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Slight irritant effect on eyes.

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

· Acute effects (acute toxicity, irritation and corrosivity):

Causes skin and eye irritation.

Vapours have narcotic effect.

- · Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity

Suspected of damaging the unborn child. Route of exposure: Inhalation.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

· Aspiration hazard Based on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: Toxic for aquatic organisms
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.

(Cont'd. on page 11)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Bead Sealer

(Cont'd. from page 10)

- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Avoid transfer into the environment.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Contact waste processors for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA

UN1133

· 14.2 UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· DOT

·IATA

Adhesives

1133 ADHESIVES, ENVIRONMENTALLY

HAZARDOUS

· IMDG ADHESIVES. I

ADHESIVES, MARINE POLLUTANT

ADHESIVES

(Cont'd. on page 12)

# Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date 13.11.2015 Revision: 13.11.2015

Trade name: Bead Sealer

|                                         | (Cont'd. from page                        |
|-----------------------------------------|-------------------------------------------|
| 14.3 Transport hazard class(es)         |                                           |
| DOT                                     |                                           |
|                                         |                                           |
|                                         |                                           |
| ~                                       |                                           |
| Class<br>Label                          | 3 Flammable liquids.<br>3                 |
| ADR                                     |                                           |
| A ^                                     |                                           |
| <b>₹</b>                                |                                           |
|                                         |                                           |
| Class                                   | 3 (F1) Flammable liquids.                 |
| Label                                   | <u> </u>                                  |
| IMDG                                    |                                           |
| ¥                                       |                                           |
| ****                                    |                                           |
| Class                                   | 3 Flammable liquids.                      |
| Label                                   | 3                                         |
| IATA                                    |                                           |
|                                         |                                           |
|                                         |                                           |
| Class                                   | 3 Flammable liquids.                      |
| Label                                   | 3                                         |
| 14.4 Packing group                      |                                           |
| DOT, ADR, IMDG, IATA                    | 11                                        |
| 14.5 Environmental hazards:             | Product contains environmentally hazardou |
| Marine pollutant:                       | substances: heptane<br>Yes                |
|                                         | Symbol (fish and tree)                    |
| Special marking (ADR):                  | Symbol (fish and tree)                    |
| 14.6 Special precautions for user       | Warning: Flammable liquids.               |
| Danger code (Kemler):<br>EMS Number:    | 33<br>F-E,S-E                             |
| 14.7 Transport in bulk according to Ann |                                           |
| Marpol and the IBC Code                 | Not applicable.                           |

# Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date 13.11.2015 Revision: 13.11.2015

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (Cont'd. from page                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| · Transport/Additional information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                               |
| · ADR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | • • • • • • • • • • • • • • • • • • • •                                                       |
| · Transport category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2                                                                                             |
| · Tunnel restriction code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D/E                                                                                           |
| ·IATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limited quantity by air: 1L                                                                   |
| · UN "Model Regulation":                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UN 1133 ADHESIVES, 3, II                                                                      |
| SECTION 15: Regulatory infor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | rmation                                                                                       |
| · 15.1 Safety, health and environment<br>· United States (USA)<br>· SARA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | tal regulations/legislation specific for the substance or mixtu                               |
| · Section 355 (extremely hazardous s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ubstances):                                                                                   |
| None of the ingredients are listed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                               |
| Section 313 (Specific toxic chemica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | l listings):                                                                                  |
| 108-88-3 toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                               |
| TSCA (Toxic Substances Control Ac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | cf):                                                                                          |
| All ingredients are listed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | •                                                                                             |
| The state of the s |                                                                                               |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | listed below are based on unbound respirable particles and are plied.                         |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | listed below are based on unbound respirable particles and are<br>plied.                      |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to product as supplied to produ | plied.                                                                                        |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to pr | plied.                                                                                        |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to pr | ctive toxicity for females:                                                                   |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to product as supplicable to cause reproduct to the cause repro | ctive toxicity for females:                                                                   |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to product as supplied to product as  | ctive toxicity for females: ctive toxicity for males:                                         |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supp 1333-86-4   Carbon black Chemicals known to cause reproduct 108-88-3   toluene Chemicals known to cause reproduct None of the ingredients are listed. Chemicals known to cause develope 108-88-3   toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ctive toxicity for females: ctive toxicity for males:                                         |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supp 1333-86-4   Carbon black Chemicals known to cause reproduct 108-88-3   toluene Chemicals known to cause reproduct None of the ingredients are listed. Chemicals known to cause develop 108-88-3   toluene Carcinogenic Categories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ctive toxicity for females: ctive toxicity for males: mental toxicity:                        |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to product as supplied to produ | ctive toxicity for females: ctive toxicity for males: mental toxicity:                        |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supp 1333-86-4   Carbon black Chemicals known to cause reproduct 108-88-3   toluene Chemicals known to cause reproduct None of the ingredients are listed. Chemicals known to cause develope 108-88-3   toluene Carcinogenic Categories EPA (Environmental Protection Age 108-88-3   toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ctive toxicity for females: ctive toxicity for males: mental toxicity:                        |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to cause reproduct 108-88-3   toluene Chemicals known to cause reproduct None of the ingredients are listed. Chemicals known to cause developed 108-88-3   toluene Carcinogenic Categories EPA (Environmental Protection Age 108-88-3   toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ctive toxicity for females: ctive toxicity for males: mental toxicity:                        |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to product as supplied  | ctive toxicity for females: ctive toxicity for males: mental toxicity: ency) earch on Cancer) |
| Proposition 65 (California): Chemicals known to cause cancer: References to chemical components generally applicable to product as supplicable to product as supplied to produ | ctive toxicity for females: ctive toxicity for males: mental toxicity:                        |

#### according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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Trade name: Bead Sealer

· Canada

(Cont'd, from page 13)

- · Canadian Domestic Substances List (DSL)
- All ingredients are listed.
- Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

· Canadian Ingredient Disclosure list (limit 1%)

108-88-3 | toluene

142-82-5 heptane

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I

None of the ingredients are listed.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child. Route of exposure: Inhalation.
- H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

(Cont'd. on page 15)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids, Hazard Category 2 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Sources

SDS Prepared by:

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Website: www.chemtelinc.com

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