

SAI Global File #004008 Burlington, Ontario, Canada

8472-LIQUID

# PENETRATING OIL

# Safety Data Sheet

### **Section 1: Identification**

### **Product Identifier and Other Means of Identification**

Product Name: Penetrating Oil

SDS Code: 8472-Liquid

**Related Part #** 8472-4L, 8472-20L

### **Recommended Use and Restriction on Use**

**Use:** All purpose lubricant and cleaner **Uses Advised Against:** Not available

# **Details of Manufacturer or Importer**

#### Manufacturer

MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

#1-800-340-0772 FAX +1-800-340-0773 E-MAIL support@mgchemicals.com WEB www.mgchemicals.com MG Chemicals (Head Office) 9347-193 Street

Surrey, British Columbia V4N 4E7

CANADA

+1-905-331-1396 FAX +1-905-331-2682 E-MAIL info@mgchemicals.com

**E-MAIL** (Competent Person): <a href="mailto:sds@mgchemicals.com">sds@mgchemicals.com</a>

# **Emergency Phone Number**

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents

USA or CANADA: Call CHEMTREC **☎**: +1-800-424-9300

For emergencies involving dangerous goods; Collect 24/7

CANADA: Call CANUTEC **2**: +1-613-996-6666 or \*666 on cellular phones

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# Section 2: Hazard(s) Identification

# **Classification of Hazardous Chemical**

# **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Aspiration Hazard		1	Danger	Health
Carcinogenicity		2	Warning	Health
Specific target organ toxicity	Repeated exposure	2	Warning	Health
Sensitization	Skin sensitizer	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific target organ toxicity	Single exposure	3	Warning	Exclamation
Flammable Liquid		4	Warning	none
Environmental Hazard	Chronic Aqua. Tox	2	none	Environment

Note: The degree of severity is ranked within each hazard class from

# **Label Elements**

Signal Word	DANGER
Pictograms	Hazard Statements
	H304: May be fatal if swallowed and enters airways
	H373: May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure
	H351: Suspected of causing cancer
	H319: Causes severe eye irritation
	H315: Causes skin irritation
	H317: May cause an allergic skin reaction
	H336: May cause dizziness or drowsiness
No Symbol	H227: Combustible liquid
Mandated	H411: Toxic to aquatic life with long lasting effects

<sup>1 (</sup>Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.



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Prevention	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from flames and hot surfaces. No Smoking.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260 + P271	Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
	water spray to extinguism.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
•	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 P305 + P351 +	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove
P331 P305 + P351 + P338	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 P305 + P351 + P338 P337 + P313	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical attention/advice.
P331 P305 + P351 + P338 P337 + P313 P302 + P352	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical attention/advice.  IF ON SKIN: Wash with plenty water.
P331 P305 + P351 + P338 P337 + P313 P302 + P352 P314	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical attention/advice.  IF ON SKIN: Wash with plenty water.  Get medical advice/attention if you feel unwell.
P331 P305 + P351 + P338 P337 + P313 P302 + P352 P314 P333 + P313	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical attention/advice.  IF ON SKIN: Wash with plenty water.  Get medical advice/attention if you feel unwell.  If skin irritation or rash occurs: Get medical advice/attention.
P331 P305 + P351 + P338 P337 + P313 P302 + P352 P314 P333 + P313 P362 + P364 P304 + P340 +	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical attention/advice.  IF ON SKIN: Wash with plenty water.  Get medical advice/attention if you feel unwell.  If skin irritation or rash occurs: Get medical advice/attention.  Take off contaminated clothing and with it before reuse.  IF INHALED: Remove person to fresh air and keep comfortable for
P331  P305 + P351 + P338  P337 + P313  P302 + P352  P314  P333 + P313  P362 + P364  P304 + P340 + P312	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical attention/advice.  IF ON SKIN: Wash with plenty water.  Get medical advice/attention if you feel unwell.  If skin irritation or rash occurs: Get medical advice/attention.  Take off contaminated clothing and with it before reuse.  IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.



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Storage	Precautionary Statements
P403 + P233	Store in well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Disposal	Precautionary Statements

# **Hazards Not Otherwise Classified**

Not available

Section 3: 0	Composition/	Information on I	Ingredients

CAS #	Chemical Name	%(weight)
64742-47-8	distillates (petroleum) hydrotreated light	41%
8042-47-5	white mineral oil (petroleum)	39%
92045-24-4	gas oils petroleum (hydrotreated light) vacuum	10%
57855-77-3	calcium alkylnaphthalenesulfonate	5%
68478-94-4	poly(oxy-1,2-ethanediyl), a,a'-[[[3-(decyloxy)propyl]methyliminio]di-2,1-ethanediyl]bis[w-hydroxy-, branched, chlorides	1%



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Section 4: First-Aid Mea	sures
Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF SWALLOWED	P301 + P310, P331
Immediate Symptoms	nausea, sore throat, diarrhea, drowsiness, dizziness
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	Do NOT induce vomiting.
IF INHALED	P304 + P340, P312, P308 + P313
Immediate Symptoms	drowsiness, dizziness, headaches, nausea, unconsciousness
Response	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
	If you feel unwell: Call a POISON CENTRE/doctor.
	IF exposed or concerned: Get medical advice/attention.
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	redness, severe irritation
Response	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical attention/advice.
IF ON SKIN	P302 + P352, P314, P333 + P313, P362 + P364
Immediate Symptoms	redness, irritation, dry skin
Response	IF ON SKIN: Wash with plenty of water.
	Get medical advice/attention if you feel unwell.
	If skin irritation or rash occurs: Get medical advice/attention.
	Take off contaminated clothing and with it before reuse.



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

**Extinguishing Media** In case of fire: Use dry chemical, carbon dioxide, chemical

foam, or water spray to extinguish. Use water spray to cool containers.

**Specific Hazards** The liquid may float on water and ignite.

Produces irritating and toxic fumes in fires or in contact with

hot surfaces.

The vapors are heavier than air and may accumulate in lowlying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.

**Combustion Products** Produces carbon oxides (CO,CO<sub>2</sub>), halogenated compounds,

hydrogen fluorides, and sulfur oxides (SO<sub>2</sub>).

**Fire-Fighter** Wear self-contained breathing apparatus and full fire-fighting

turn-out gear.

### **Section 6: Accidental Release Measures**

**Personal Protection** See personal protection recommendations in Section 8.

Precautions for

Response

Do not breathe the mist/spray/vapors. Remove or keep away

all sources of extreme heat or open flames.

Environmental Precautions

Avoid releasing to the environment. Prevent spill from entering

drains and waterways.

**Containment Methods** Contain with inert and non-flammable absorbent (such as soil,

sand, vermiculite).

**Cleaning Methods** Collect liquid in a sealable, solvent-resistant container. Sprinkle

inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the

last traces of residue.

**Disposal Methods** Dispose of spill waste according to Section 13.



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# **Section 7: Handling and Storage**

**Prevention** Keep out of reach of children.

Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood.

Keep away from flames and hot surfaces. No smoking.

Do not breathe mist/vapors/spray. Use only outdoors or in a well-

ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Do not eat, drink, or smoke when using this product.

**Handling** Wear protective gloves/clothing/eye protection.

Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

Avoid release to the environment.

**Storage** Store in well ventilated place. Keep container tightly closed.

Store locked up.

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

# **Substances with Occupational Exposure Limit Values**

Chemical Name	Country/Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
distillate (petroleum) hydrotreated light	ACGIH U.S.A. OSHA PEL	200 mg/m <sup>3</sup> Not established	Not established Not established
(aerosol)	Canada AB	200 mg/m <sup>3</sup>	Not established
	Canada BC	200 mg/m <sup>3</sup>	Not established
	Canada ON	200 mg/m <sup>3</sup>	Not established
	Canada QC	Not established	Not established



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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
white mineral oil (petroleum)  gas oils petroleum (hydrotreated light) vacuum	ACGIH U.S.A. OSHA PEL U.S.A WEEL a) Canada AB Canada BC b) Canada ON Canada QC ACGIH c) U.S.A. OSHA PEL Canada AB Canada BC b) Canada BC b) Canada ON	5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> Not established Not established 1 mg/m <sup>3</sup> Not established	(10 mg/m³) b) Not established 10 mg/m³ 10 mg/m³ Not established 10 mg/m³ 10 mg/m³ 10 mg/m³ Not established Not established Not established Not established Not established
	Canada QC	Not established	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS<sup>2</sup> database and data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

- a) Workplace Environmental Exposure Limit
- b) Base on oil mist, severely refined value.
- c) Value reported as a read across to the ACGIH mineral oil inhalable fraction. The supplier derived inhalation effects are 68 mg/m³ for long term and 4300 mg/m³ for short term.

# **Engineering Controls**

**Ventilation** Keep airborne concentrations below the occupational exposure

limits (OEL).

# **Personal Protective Equipment**

**Eye protection** Wear appropriate protective eyeglasses or chemical safety

goggles.

Recommendation: Ensure that glasses have side shields for

lateral protection.

**Skin Protection** For likely contacts, use of protective nitrile gloves or other

chemically resistant gloves.

For incidental contacts, use nitrile, neoprene, PVC gloves, or

other chemically resistant gloves.

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**Respiratory Protection** For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges resistant to oils.

> Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this SDS, and that the respirator is fitted to the employee by a professional.

# **General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

# **Section 9: Physical and Chemical Properties**

Physical State	Liquid	Lower Flammability Limit	0.6%
Appearance	Transparent, yellow/orange	Upper Flammability Limit	10.0%
Odor	Slight	Vapor Pressure	< 0.013 hPa
	hydrocarbon	@20 °C <sup>a)</sup>	[<0.010 mmHg]
Odor Threshold	Not available	Vapor Density	≥5 (Air =1)
pH	Not available	Specific Gravity @25 °C	0.83
Freezing/Melting	Not	Solubility in	Immiscible
Point	available	Water	
<b>Boiling Point</b>	≥228 °C	Partition	Not
	[≥442 °F]	Coefficient	available
Flash Point a)	>66 °C	Auto-ignition	≥216 °C
	[>150 °F]	Temperature <sup>a)</sup>	[≥421 °F]
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability (solid, gas)	Not available	Viscosity @40 °C	<20.5 mm <sup>2</sup> /s

a) Values based on the mixture of distillates (petroleum) hydrotreated light, which is the component with the lowest value.



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# **Section 10: Stability and Reactivity**

**Reactivity** Not available.

**Chemical** Chemically stable at normal temperatures and pressures

Stability

**Conditions to** Avoid mechanical or thermal mist generation. Avoid excessive heat,

**Avoid** open flames, and incompatible substances.

**Incompatibilities** strong oxidizing agents, strong acids, strong bases

**Polymerization** Will not occur

**Decomposition** Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.

# **Section 11: Toxicological Information**

# **Routes of Exposure**

Ingestion, Inhalation, Eye contact, and Skin contact

### **Symptoms Summary**

Eyes May cause redness and severe eye irritation.

Skin May cause skin redness, irritation, and dry skin.

**Inhalation** May cause drowsiness, dizziness, headaches, nausea, and

unconsciousness.

Ingestion May cause nausea, sore throat, and diarrhea (see inhalation symptoms)

Chronic Prolonged or repeated exposure may cause skin dryness and cracking,

defat skin.

Long term exposure may lead to allergic skin reaction in some

individuals.



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# **Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
distillates (petroleum)	>8 000 mg/kg	>4 000 mg/kg	>2 500 ppm
hydrotreated light	Rat	Rabbit	4 h Rat
white mineral oil (petroleum)	>5 000 mg/kg	Not	Not
	Rat	available	available
gas oils petroleum	>5 000	>2 000	Not
(hydrotreated light) vacuum	mg/kg Rat	mg/kg Rabbit	available
calcium	2 000	>20	>18 000 mg/m³
alkylnaphthalenesulfonate	mg/kg Rat	g/kg Rabbit	1 h Rat
poly(oxy-1,2-ethanediyl), a,a'-[[[3-(decyloxy)propyl] methyliminio]di-2,1- ethanediyl]bis[w-hydroxy-, branched, chlorides	Not available	Not available	Not available

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

a) Supplier MSDS

# **Other Toxicological Effects**

Skin corrosion/irritation	The mixture is calculated to be a skin irritant.
Serious eye damage/irritation	Poly(oxy-1,2-ethanediyl), a,a'-[[[3-(decyloxy)propyl] methyliminio]di-2,1-ethanediyl]bis[w-hydroxy-, branched, chlorides is a category 1 corrosive, which is present at 1%. In conjunction of the the 5% of the category 2 calcium alkylnaphthalene sulfonate, the mixture is therefore classified as category 2.
Sensitization (allergic reactions)	Poly(oxy-1,2-ethanediyl), a,a'-[[[3-(decyloxy)propyl] methyliminio]di-2,1-ethanediyl]bis[w-hydroxy-, branched, chlorides is a skin sensitizer according to animal studies.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
	The middle distillates of gas oils petroleum (hydrotreated light) vacuum have a weak carcinogenic potention as demonstrated by the low tumor yield and the long latent periods.

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**Mutagenicity** Based on available data, the classification criteria are

(risk of heritable genetic effects) not met.

**Reproductive Toxicity** Based on available data, the classification criteria are

(risk to sex functions) not met.

**Teratogenicity** Based on available data, the classification criteria are

(risk of fetus malformation) not met.

**STOT-single exposure** The hydrocarbon hydrotreate light is known to have

narcotic effects by inhalation.

**STOT-repeated exposure** Gas oils petroleum (hydrotreated light) vacuum may

cause damage to the thymus, liver, and bone marrow

through prolonged or repeated exposure.

**Aspiration hazard** The liquid is content is classified as Cat 1 aspiration

hazards. It is composed of petroleum, and the kinematic viscosity is <20.5 mm<sup>2</sup>/s at 40 °C.

# **Section 12: Ecological Information**

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<a href="http://echa.europa.eu">http://echa.europa.eu</a>), and other reliable sources.

The distillate (petroleum) hydrotreated light and gas oils (petroleum), hydrotreated light vacuum components have a chronic aqueous toxicity of category 2.

# **Acute Ecotoxicity**

Category 2

Toxic to aquatic life

# **Chronic Ecotoxicity**

Category 2

Toxic to aquatic life with long lasting effects.

Avoid release to the environment. Collect spillage.

#### **Biodegradability**

Expected to be inherently biodegrable. The volatile constituents will oxidize rapidly in air by photochemical reaction.



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### Other Effects

Regulated Volatile Organic Compounds (VOC) content according to the US (EPA) and Canadian (CEPA) authorities.

VOC (CEPA) = 38% [317 g/L]

VOC (EPA) = 78% [592 g/L]

VOC with low vapor pressure exemption (California & Canada) = 0.19% [1.6 g/L]

# **Section 13: Disposal Information**

Dispose of contents in accordance with all local, regional, national, and international regulations.

# **Section 14: Transport Information**

#### Ground

Refer to TDG (Canadian Transportation of Dangerous Goods regulations) and **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.** 

Sizes 5 liter and under

**Limited Quantity** 



Sizes greater than 5 L

UN number: UN3082

**Shipping Name:** Environmentally Hazardous Substance, Liquid N.O.S.

(Vacuum Gas Oil)

Class: 9

Packing Group: III Marine Pollutant: Yes







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### Air

### Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 5 liter and under

**Limited Quantity** 



Sizes greater than 5 L

**UN number**: UN3082

**Shipping Name:** Environmentally Hazardous Substance, Liquid N.O.S.

(Vacuum Gas Oil)

Class: 9

Packing Group: III Marine Pollutant: Yes





# Sea

# Refer to IMDG regulations.

Sizes 5 liter and under Limited Quantity



Sizes greater than 5 L **UN number**: UN3082

**Shipping Name:** Environmentally Hazardous Substance, Liquid N.O.S.

(Vacuum Gas Oil)

Class: 9

Packing Group: III Marine Pollutant: Yes



*Note:* Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.



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# **Section 15: Regulatory Information**

### Canada

### WHMIS 1988 Classification





B3 – Combustible Liquids; D2A – Very Toxic (carcinogen) D2B – Toxic Other (skin irritant, eye irritant, skin sensitizer)

# **Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL.

### **Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

#### **Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

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### **USA**

### **Other Classifications**

### **HMIS® RATING**

HEALTH:	*	2
FLAMMABILITY:		2
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

### **NFPA® 704 CODES**



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

### **CAA** (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain ingredients that have a reporting quantity requirements in section 313 Title III of the SARA of 1986 and 40 CFR part 372.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product does not contain any listed substances in California.

# **Europe**

**RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

**WEEE** (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.



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# **Section 16: Other Information**

**SDS Prepared by** Michel Hachey

**Date of Review** 19 November 2015

**Supersedes** 15 July 2011

Reason for Changes: Change to GHS format in compliance with HCS 2012 and WHMIS.

#### Reference

- 1) ACGIH 2013 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2013).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

### Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
NOELR	No observable effect loading ratio
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content



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**Technical Queries** Contact us regarding any questions, improvement suggestions, or

problems with this product. Application notes, instructions, and FAQs

are located at www.mgchemicals.com.

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

Mailing Addresses Manufacturing & Support Head Office

1210 Corporate Drive 9347–193rd Street

Burlington, Ontario, Canada Surrey, British Columbia, Canada

L7L 5R6 V4N 4E7

**Disclaimer** This material safety data sheet is provided as an information resource only.

*M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international

regulations.