

PENETRATING OIL

8472-450G

Material Safety Data Sheet

Section 1: Product and Company Identification

Product Name: Penetrating Oil

MSDS Code: 8472–Aerosol

Related Part #: 8472-450G

Manufacturer: MG Chemicals (Head Office), 9347–193 Street, Surrey, B.C., V4N 4E7

Emergency Contact: CANUTECH ☎: 1-613-996-6666, Collect 24/7

Technical Contacts: ☎ 1-800-201-8822 FAX 1-800-708-9888

E-MAIL: support@mgchemicals.com **WEB** www.mgchemicals.com

Use: To protect metal parts from rust and corrosion.

Section 2: Hazards Identification

Eyes	Causes severe eye irritation if sprayed in eyes.
Skin	May cause mild skin irritation. Can cause redness, dryness, burning and skin burns.
Inhalation	Harmful if inhaled. May cause nose, throat and lung irritation. Inhalation of aerosol may cause irritation to the upper respiratory tract.
Ingestion	Harmful if swallowed. Aspiration hazard.
Chronic	Prolonged or repeated contact may cause various forms of dermatitis including folliculitis and oil acne. Long term intensive exposure to oil mist may cause benign lung fibrosis.

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Section 3: Hazardous Ingredients

CAS #	Chemical Name	Wt%	ACGIH TWA	OSHA PEL	OSHA STEL
64742-47-8	Aliphatic hydrocarbon (petroleum) hydrotreated	15-40%	100 mg/m ³	N/A	300 mg/m ³
see Note A)	Mineral oil / metal working oil	15-40%	5 mg/m ³	N/A	10 mg/m ³
811-97-2	1,1,1,2 tetrafluoroethane	10-30%	4200 mg/m ³	N/E	N/E
92045-24-4	Gas oils petroleum (hydrotreated light) vacuum	7-13%	N/A	N/A	N/A
57855-77-3	Calcium alkyl naphthalenesulfonate/carboxylate	3-7%	N/A	N/A	N/A
68478-94-4	Poly(oxy-1,2-ethanediyl), a,a'-[[[3-(decyloxy)propyl]methyliminio]di-2,1-ethanediyl]bis[w-hydroxy-, branched, chlorides	0.5-1.5%	N/A	N/A	N/A
57-55-6	Propylene glycol	0.1-1%	474 mg/m ³	N/E	N/E

Note A) Non-hazardous components that are listed or exempted by WHMIS and DSL. The base mixture has the following CAS numbers: 8042-47-5, 64742-46-7, 64742-47-8, 64742-53-6, 64742-54-7, 64742-55-8, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0, 178603-65-1, 178603-66-2, 445411-73-4

Section 4: First Aid Measures

Eyes	Flush eyes with water for 15 minutes. Check for and remove any contact lenses. Get medical aid if irritation persists.
Skin	Wipe skin with dry cloth; then wash with water and soap. Get medical aid if irritation persists.
Inhalation	Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Ingestion	Do not induce vomiting. Get medical aid. Call a poison centre or physician. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

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Section 5: Fire Fighting Measures

Autoignition Temperature 218 °C **Flash Point** ~101.6 °C **LEL / UEL*** 1.0% / 10.1%

Extinguishing Media Use dry chemical, carbon dioxide, or chemical foam

Combustion Products Generates CO, CO₂, sulfur dioxide, nitric oxides, and smoke.

General Information Will burn if involved in a fire. Aerosol container may explode when exposed to high heat. Cool fire-exposed aerosols with water fog. Watch your step: spilled material is very slippery.

**LEL = Lower Explosive Limit (in volume %); UEL = Upper Explosive Limit*

Section 6: Accidental Release Measures

Containment Remove all source of ignition. Caution, the material is slippery.

Cleaning Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water to remove the last traces of residue.

Disposal Dispose of spill waste according to local disposal regulations.

Section 7: Handling and Storage

Handling Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Storage Store in dry and well-ventilated areas away for sources of ignition or incompatible substances. Do not expose to temperature below -26 °C [-16 °F] or above 45 °C [113 °F].

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Section 8: Exposure Controls/Personal Protection

Routes of Entry

Eyes, ingestion, inhalation, and skin.

Engineering Controls

Ventilation: Normal ventilation is adequate when used as directed. Use general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protective Equipment

Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin Protection: Wear appropriate protective clothing to prevent skin contact. Use of protective gloves in butyl rubber, PVC, neoprene, nitrile or other impervious gloves.

Respiratory Protection: If exposed to mist from aerosol, wear respirator.

General Hygiene Considerations

Wash hands with water and soap after use.

Section 9: Physical and Chemical Properties

Physical State	Liquid	Odor	Slight hydrocarbon	Appearance	Clear yellow/orange
Odor Threshold	Not established	Freezing Point	Estimated at -30 °C	Partition Coefficient	Not established
Boiling Point	246 °C	Vapor Pressure	0.01 mm/Hg @ 21 °C	Evaporation Rate	Not applicable
Specific Gravity	0.83	Solubility in Water	Insoluble	pH	Not applicable
Autoignition Temperature	218 °C	Flash Point	~101.6 °C	Vapor Density	~5 (Air = 1)

*LEL = Lower Explosive Limit; UEL = Upper Explosive Limit

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Section 10: Stability and Reactivity

Stabilities	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Mechanical or thermal oil mist generation. Temperature over 40 °C, ignition sources, and incompatible substances
Incompatibilities	Strong acids, bases, oxidizing agents, reactive metals like sodium, barium, and aluminum
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Sensitization (effects of repeated exposure)	May cause skin sensitization and other allergic reactions
Carcinogenicity (risk of cancer)	Not a carcinogen
Reproductive Toxicity (risk of sterility)	Not a reproductive hazard
Teratogenicity (risk of fetus malformation)	Not known to harm an unborn child
Mutagenicity (risk of heritable genetic effects)	No a mutagen

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Lethal Exposure Concentrations

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	LD50 inhalation	TLC _o inhalation
Aliphatic hydrocarbon (petroleum) hydrotreated	>8,000 mg/kg Rat	>4,000 mg/kg Rabbit		>2500 ppm 4h Rat	
Mineral oil / metal working oil (mist)	>5,000 mg/kg Rat	N/A	N/A	N/A	1000 mg/m ³ 4 w Rat
1,1,1,2-tetrafluoroethane	N/A	N/A	>500 000 ppm 4 h Rat	N/E	30 pph 6 h Rat
Gas oil (petroleum) hydrotreated light vacuum	>5,000 mg/kg Rat	>2,000 mg/kg Rabbit	N/A	4100 mg/m ³ mist 4h Rat	N/A
Calcium alkylnaphthalenesulfonate	2000 mg/kg Rat	>20 g/kg Rabbit	>18 000 mg/m ³ 1 h Rat	N/A	N/A
Poly(oxy-1,2-ethanediyl), a,a'-[[[3-(decyloxy)propyl] methyliminio]di-2,1-ethanediyl]bis[w-hydroxy-, branched, chlorides	N/A	N/A	N/A	N/A	N/A
Propylene glycol	21,000 mg/kg Rat	20,800 mg/kg Rabbit	>105 ppm 8 h Rat	N/A	2180 mg/m ³ Rat 6h 30 d intermittent

Section 12: Ecological Information

This product is not readily Biodegradable. The CAS # 92045-24-4 component is a marine pollutant. It has a NOEC (no observed effect concentration) of 0.083 mg/mL for fish.

Consumer Products

VOC* (Californian & Canadian with LVP-VOC exemption) = 0.19% [1.6 g/L]

Commercial Products

VOC (Europe and WHIMS) = 38% [317 g/L]

VOC (EPA) = 71% [592 g/L]

*VOC = Volatile Organic Content; LVP-VOC = Low Vapor Pressure Volatile Organic Content

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Section 13: Disposal Information

Dispose of in accordance with all local, provincial, state, and federal regulations. As a general guideline, Canadian federal installations are limited to 15 mg/L total oil and grease discharge.

Section 14: Transport Information

Ground

Consumer Commodity; ORM-D

Air

Shipper must be trained and certified. Refer to IATA Dangerous Good Regulation.

UN Number: UN1950; **Shipping Name:** Aerosols, Flammable; **Class:** 2.1

Sea

Shipper must be trained and certified. Refer to IMDG regulations.

UN Number: UN1950; **Shipping Name:** Aerosols, Flammable; **Class:** 2.1

Section 15: Regulatory Information

Canada

WHMIS Classification



A – Aerosol Container; B3 – Combustible Liquid; DB2 – Toxic (Aspiration hazard)

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

All ingredients are listed on the DSL/NDSL.

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.

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Health Canada

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

USA

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 any chemicals listed as hazardous air pollutants.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

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

This product does not contain any chemicals subject to the reporting requirements of 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.

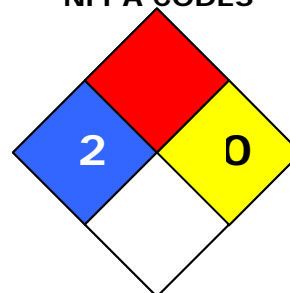
California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA).

This product does not contain any chemicals listed

HMIS RATING

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

NFPA CODES



Europe

RoHS

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

WEEE

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

MSDS Prepared by Michel Hachey

Date of Preparation 23 June, 2011

Abbreviations

LC50 Lethal Concentration 50%
LD50 Lethal Dose 50%
N/A Not Applicable
N/E Not Estimated
PEL Permissible Exposure Limit
STEL Short-Term Exposure Limit
TCLo Lowest published toxic concentration
TWA Time Weighted Average
VOC Volatile Organic Content

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.

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