INDUSTRIAL LUBRICANT
M-55

M-55
Lubrifiant
Lubricant

SAFETY DATA SHEET

1. IDENTIFICATION

Identification du produit	**Nom du produit :** M-55 **Numéro du produit :** - **Utilisation recommandée :** : Mineral Oil **Utilisation limitée :** Use only as directed on label.
Identification du fournisseur	**Envirolin Canada** 520, rue Adanac - Quebec (Quebec) G1C 7B7 1-418-623-1216 (for all product information)
Numéro pour les urgences	1-800-424-9300 ou 1-703-527-3887 (CHEMTREC : Emergency Center for Chemical Transportation - USA) CANUTEC 1-613-996-6666 (spill related issues) Medical emergency 1-800-463-5060 (CAPQ – Quebec Poison Control Center)

2. HAZARDS IDENTIFICATION

Acute aquatic toxicant	Category 3.
Chronic aquatic toxicant	Category 3.
Environmental Hazards	Harmful to aquatic life with long lasting effects.
Prevention	Avoid release to the environment.
Disposal	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Components	Amount	CAS Number
Highly refined mineral oil (C15 - C50)*	70 – 99 % weight	Mixture

*Information on ingredients that are considered Controlled Products and/or that appear on the WHMIS Ingredient Disclosure List (IDL) is provided as required by the Canadian Hazardous Products Act (HPA, Sections 13 and 14). Ingredients considered hazardous under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, are also listed.

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4. FIRST AID MEASURES

FIRST AID MEASURES	
In case of contact with eyes	No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.
In case of contact with skin	No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
In case of inhalation	No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.
If swallowed	No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

IMMEDIATE HEALTH EFFECTS	
In case of contact with eyes	Not expected to cause prolonged or significant eye irritation.
In case of contact with skin	Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.
In case of inhalation	Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.
If swallowed	Not expected to be harmful if swallowed.

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Note to Physicians	In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.
Unusual Fire Hazards	Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).
Fire Fighting Instructions	This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products	Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

6. ACCIDENTAL RELEASE MEASURES

Protective Measures	Eliminate all sources of ignition in vicinity of spilled material.
Reporting	Report spills to local authorities as appropriate or required.
Spill Management	Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

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7. HANDLING AND STORAGE

General Handling Information	Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Precautionary Measures	DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.
Static Hazard	Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.
Container Warnings	Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Component	Source	Type	mg/m³
Highly refined mineral oil (C15 - C50)*	ACGIH	TWA	5 mg/m³
Highly refined mineral oil (C15 - C50)*	ACGIH	STEL	10 mg/m³
Highly refined mineral oil (C15 - C50)*	OSHA Z.1	TWA	5 mg/m³

*Consult local authorities for acceptable provincial values in Canada. Consult the Canadian Standards Association Standard 94.4-2002 Selection, Use and Care of Respirators.

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General considerations	Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
Engineering controls	Use in a well-ventilated area.
Eye/Face Protection	No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Respiratory Protection	No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.
Skin Protection	No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

9. PHYSICAL AND CHEMICAL PROPERTIES

Attention : the data below are typical values and do not constitute a specification.

Color	Colorless to yellow.
Physical State	Liquid.
Odor	Petroleum odor.
Odor Threshold	No data available.
pH	Not Applicable.
Vapor Pressure	No data available.

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Vapor Density (Air = 1)	No data available.
Boiling Point	No data available.
Solubility	Soluble in hydrocarbons; insoluble in water.
Freezing Point	Not Applicable.
Melting Point	Not Applicable.
Density	0.85 kg/l - 0.88 kg/l @ 15°C (59°F) (Typical).
Viscosity	22 mm2/s @ 40°C (104°F) minimum.
Evaporation Rate	No data available.
Decomposition temperature	No data available.
Octanol/Water Partition Coefficient	No data available.

Flammability properties	
Flammability (solid, gas)	No data available.
Flashpoint	(Cleveland Open Cup) 190 °C (374 °F) Minimum
Autoignition	No data available.
Flammability (Explosive) Limits (% by volume in air)	Lower: Not Applicable. Upper: Not Applicable.

10. STABILITY AND REACTIVITY

Reactivity	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc...
Chemical Stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials	Not applicable.
Hazardous Decomposition Products	None known (None expected).
Hazardous Polymerization	Hazardous polymerization will not occur.
Sensitivity to Mechanical Impact	No.

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Serious Eye Damage/Irritation	The eye irritation hazard is based on evaluation of data for product components.
Skin Corrosion/Irritation	The skin irritation hazard is based on evaluation of data for product components.
Skin Sensitization	The skin sensitization hazard is based on evaluation of data for product components.

Acute exposure	
Acute Dermal Toxicity	The acute dermal toxicity hazard is based on evaluation of data for product components.
Acute Oral Toxicity	The acute oral toxicity hazard is based on evaluation of data for product components.
Acute Inhalation Toxicity	The acute inhalation toxicity hazard is based on evaluation of data for product components.
Acute Toxicity Estimate	Not Determined.

Additional information	
Germ Cell Mutagenicity	The hazard evaluation is based on data for components or a similar material.
Carcinogenicity	The hazard evaluation is based on data for components or a similar material.
Reproductive Toxicity	The hazard evaluation is based on data for components or a similar material.
Specific Target Organ Toxicity - Single Exposure	The hazard evaluation is based on data for components or a similar material.
Specific Target Organ Toxicity - Repeated Exposure	The hazard evaluation is based on data for components or a similar material.

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Additional information	This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

12. ECOLOGICAL INFORMATION

Ecotoxicity	This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.
Mobility	No data available.
Persistence and degradability	This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material. The product has not been tested. The statement has been derived from the properties of the individual components.
Bioaccumulation potential	Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: No data available.

13. DISPOSAL CONSIDERATIONS

Treatment	Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods. (See B.C. Reg. GY/92 Waste Management Act; R.R.O. 1990, Reg. 347 General-Waste Management; C.C.SM.c. W40 The Waste Reduction and Prevention Act; N.S. Reg. 51/95 and N.S. Reg. 179/96 for examples of Provincial legislation).

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14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

D. O.T Shipping Description	NOT REGULATED AS A HAZARDOUS MATERIAL UNDER 49 CFR.
IMO/IMDG Shipping Description	NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE.
ICAO/IATA Shipping Description	NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO/IATA.
TC Shipping Description	NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION UNDER TRANSPORT CANADA.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable.

15. REGULATORY INFORMATION

No components of this material were found on the regulatory lists above.

Regulatory lists searched	
01-1 = IARC Group 1	03 = EPCRA 313
01-2A = IARC Group 2A	04 = CA Proposition 65
01-2B = IARC Group 2B	05 = MA RTK
02 = NTP Carcinogen	06 = NJ RTK
	07 = PA RTK

Chemical inventory
All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States). One or more components is listed on ELINCS (European Union). Secondary notification by the importer may be required. All other components are listed or exempted from listing on EINECS.

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16. OTHER INFORMATION

Date de révision	April 16 2020
Préparé par	Envirolin Canada

Abbreviations that may have been used in this document	
TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Global Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breating Apparatus	

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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