



**MATERIAL SAFETY DATA SHEET FOR U.S.A. AND CANADA**

0 to 10	Olefin sulfide.	**	**	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.
0 to 1	Distillates, petroleum, solvent-dewaxed heavy paraffinic.	N.Av.	64742-65-0	5 <sup>c</sup>	N.Av.	5 <sup>c</sup>	10 <sup>c,d</sup>	N.Av.	N.Av.
0 to 1	Distillates petroleum, solvent-refined heavy paraffinic	N.Av.	64741-88-4	5 <sup>c</sup>	N.Av.	5 <sup>c</sup>	10 <sup>c,d</sup>	>5000	N.Av.

N.Av. = Not Available

\*Supplier advises that the concentration is a trade secret; however, it will fall within this range,

\*\*Supplier advises that this is a trade secret.

\*\*\*Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

<sup>a</sup>Oral-Rat LD50 (mg/kg)

<sup>b</sup>Inhalation LC

<sup>c</sup>Based on Oil Mist, Mineral

<sup>d</sup>Notice of Intended Changes;N.Av. (value to be eliminated)

<sup>e</sup>Based on similar materials

<sup>f</sup>Skin-Rabbit LD50 is greater than 2000 mg/kg

<sup>g</sup>Skin-Rabbit LD50 is greater than 3000 mg/kg

**SECTION 3 - EMERGENCY AND FIRST AID PROCEDURES**

<b>EYES:</b>	For direct contact, flush eyes with plenty of water, holding eyelids apart for 15 minutes. If irritation or redness from exposure to vapor or mist develops, move victim away from exposure into fresh air. Consult physician if irritation or pain persists.
<b>SKIN:</b>	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Consult physician if irritation or pain persists.
<b>INHALATION: (Breathing)</b>	Remove to fresh air immediately. Use oxygen if there is difficulty breathing or artificial respiration if breathing has stopped. Do not leave victim unattended. Seek immediate medical attention if breathing difficulty persists.
<b>INGESTION: (Swallowing)</b>	Seek immediate medical attention. Do NOT induce vomiting. If spontaneous vomiting occurs, keep head below hips to avoid aspiration (into lungs).
<b>SPECIAL NOTE TO PHYSICIAN:</b>	In general, lubricating oils have low oral toxicity. High-pressure injection under the skin may have serious consequences and may require urgent treatment. Contact Rush Poison Control Center (see Section 1) for additional medical information. No specific antidote available. Treat symptomatically and supportively.

**SECTION 4 -- HEALTH HAZARD DATA AND TOXICOLOGICAL PROPERTIES  
IMMEDIATE HAZARDS - CAUSES RESPIRATORY, EYE, AND SKIN IRRITATION.**

**PRIMARY ROUTES OF EXPOSURE:** Eye and skin contact; inhalation, ingestion.

**EXPOSURE LIMITS:** See Section 2.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

**ACUTE:** *Eyes:* Contact with liquid or mist may cause irritation.

*Skin:* Contact with liquid or mist may cause irritation. No significant skin absorption hazard.

*Inhalation (Breathing):* Vapor or mist may be irritating to the respiratory tract.

*Ingestion (Swallowing):* Low order of acute oral toxicity. May cause irritation of the gastrointestinal tract, nausea, vomiting, abdominal cramps and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

**CHRONIC:** Prolonged or repeated skin contact may cause drying and cracking, redness, itching, and/or swelling. Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation and/or fibrosis tissue formation.

MATERIAL SAFETY DATA SHEET FOR U.S.A. AND CANADA

**MEDICAL CONDITIONS**

**AGGRAVATED BY EXPOSURE:**

Individuals with pre-existing lung, central nervous system or skin disorders may have increased susceptibility to the effects of exposure.

**CARCINOGENICITY:**

IARC classifies chemicals by their carcinogenic risk, including agents that are known, probable or possible carcinogens. NTP classifies chemicals as either known carcinogens or for which there is a limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. ACGIH recognizes two categories of carcinogens, confirmed or suspected human carcinogens.

No animal skin carcinogenicity tests of this product have been conducted. Neither IARC, NTP, ACGIH nor OSHA have classified this chemical as to its carcinogenic risk.

Also see Section 9.

**OTHER POTENTIAL HEALTH HAZARDS:**

The following information is required by Canadian WHMIS regulations. Irritancy is covered in Signs and Symptoms of Exposure in Section 4. There is no known human sensitization, toxicologically synergistic product, reproductive toxicity, or teratogenicity associated with this material. There are no universally recognized test procedures or standards in the scientific community for this product correlating mutagenicity in single-cell microorganisms with mutagenicity in humans. There is limited evidence which suggests that this product is probably not mutagenic in single-cell microorganisms.

**SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**

**EMERGENCY RESPONSE**

**GUIDE NUMBER:**

Not applicable.

**FIRE AND EXPLOSION HAZARDS:**

Decomposition and combustion products may be toxic. Heated containers may rupture, explode or be thrown into the air. Not sensitive to mechanical impact or static discharge.

**FIRE FIGHTING PROCEDURES:**

THIS INFORMATION IS INTENDED SOLELY FOR THE USE OF INDIVIDUALS TRAINED IN THIS SYSTEM.  
NFPA 704 Rating 0-1-0 (Health-Fire-Reactivity)  
Keep storage containers cool with water spray. Positive-pressure, self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing may provide limited protection.

**EXTINGUISHING MEDIA:**

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

**CONDITIONS OF FLAMMABILITY:**

Intense heat, sparks or flame.

**FLASH POINT:**

374°F (190°C) (minimum) Cleveland Open Cup

**AUTOIGNITION TEMPERATURE:**

750°F (399°C) (approximately) (based on similar materials)

**FLAMMABLE LIMITS IN AIR:**

**LOWER:** 1.0 Vol. % (For mineral oil mist)  
**UPPER:** 10.0 Vol. % (For mineral oil mist)

**HAZARDOUS COMBUSTION**

**PRODUCTS:**

Burning may produce hydrogen sulfide, alkyl mercaptans, sulfides, aldehydes, phosphorus oxides, nitrogen oxides, sulfur oxides and carbon monoxide.

**SECTION 6 -- REACTIVITY DATA**

**STABILITY:**

Stable under normal temperatures and pressures. Not reactive with water.

**INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):**

Avoid oxidizing agents, heat, sparks or flame.

MATERIAL SAFETY DATA SHEET FOR U.S.A. AND CANADA

**HAZARDOUS POLYMERIZATION:** Not known to occur under normal temperatures and pressures.

**HAZARDOUS DECOMPOSITION:** None under normal temperatures and pressures. See Section 5 -  
**PRODUCTS:** Hazardous Combustion.

SECTION 7 - PREVENTIVE MEASURES

**PRECAUTIONS FOR SAFE USE AND HANDLING**

**HANDLING PRECAUTIONS:** Keep away from heat, sparks or flame. Avoid contact with eyes, skin, clothing or shoes. Use in well ventilated area and avoid breathing vapor or mist.

**PERSONAL HYGIENE:** Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Clean contaminated clothing, shoes and protective equipment before reuse. Discard contaminated clothing, shoes or protective equipment if they cannot be thoroughly cleaned.

**SHIPPING AND STORING PRECAUTIONS:** Keep container tightly closed when not in use and during transport. Store in a cool, dry place. Do not pressurize, cut, heat, weld, grind or expose containers to flame or other sources of ignition. Empty product containers may contain product residue. See Section 9 for Packing Group information.

**SPILL PROCEDURES:** Remove all ignition sources. Stop leak if you can do it without risk. Wear protective equipment specified in Section 7, CONTROL MEASURES. Ventilate area and avoid breathing vapor or mist. Water spray may reduce vapor, but it may not prevent ignition in closed spaces. For large spills, dike far ahead of liquid spill for later disposal. Contain away from surface waters and sewers. If possible, contain as a liquid for possible re-refining or sorb with compatible sorbent material and shovel into closable container for disposal.

**WASTE DISPOSAL METHODS:** Dispose in accordance with federal, state, provincial and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Maine Lubrication Service regarding recycling or proper disposal.

**CONTROL MEASURES**

**EYE PROTECTION:** Where there is likelihood of eye contact, wear chemical goggles and faceshield. DO NOT wear contact lenses.

**PROTECTIVE GLOVES:** Use Neoprene, Nitrile, Viton®, PVC or equivalent gloves to prevent contact with skin. Do NOT use natural rubber or equivalent gloves.

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limit. A self-contained breathing apparatus (SCBA) and full protective equipment is required for fire emergencies. Selection and use of respiratory protective equipment should be in accordance in the U.S.A. with OSHA General Industry Standard 29 CFR 1910.134 or in Canada with CSA Standard Z94.4-M1982.

**ENGINEERING CONTROLS:** Provide process enclosure or local ventilation needed to maintain concentration of vapor or mist below applicable exposure limits when general ventilation is unavailable..

**OTHER PROTECTIVE EQUIPMENT:** Where spills and splashes are possible, wear appropriate oil-resistant boots, apron or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin.

SECTION 8 -- PHYSICAL DATA

**PHYSICAL STATE, APPEARANCE AND ODOR:** Liquid, amber, petroleum odor

MATERIAL SAFETY DATA SHEET FOR U.S.A. AND CANADA

**ODOR THRESHOLD:** Not available

**SPECIFIC GRAVITY:** 0.89 (water = 1) (approximately)

**DENSITY:** 7.4 lbs./US gal (890 g/l) (approximately)

**VAPOR DENSITY:** greater than 10 (air = 1) (based on similar materials)

**VAPOR PRESSURE:** less than 0.1 mm Hg at 68°F (20°C) (based on similar materials)

**BOILING POINT:** 424°F (218°C) (minimum)

**FREEZING POINT:** Not available [Pour Point 0°F (-18°C) (maximum)]

**pH:** Not applicable

**VOLATILE ORGANIC COMPOUNDS: (US EPA DEFINITION)** 100 WT%; 7.4 lbs./US gal; 890 g/l (approximately). Photochemically reactive as per 40 CFR Part 51.100(s).

**EVAPORATION RATE:** 0.001 (ether = 1) (based on similar materials)

**SOLUBILITY IN WATER:** Insoluble (based on similar materials)

**COEFFICIENT OF WATER / OIL DISTRIBUTION:** not applicable

**MOLECULAR WEIGHT:** not applicable

**SECTION 9 – OTHER REGULATORY INFORMATION**

**TRANSPORTATION INFORMATION**

**DOT PROPER SHIPPING NAME:** Not regulated.

**DOT CLASS:** Not regulated.

**DOT ID NUMBER:** Not regulated.

**TDG CLASSIFICATION:** Not regulated.

**SARA TITLE III:** Product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Product poses the following health hazards as defined in 40 CFR 370.3 (Sections 311, 312 of SARA Title III):

Immediate (Acute) Health Hazard  
 Delayed (Chronic) Health Hazard

**WHMIS CLASSIFICATION:** Not regulated.

**TSCA:** The components of this product are listed on the TSCA Inventory.

## MATERIAL SAFETY DATA SHEET FOR U.S.A. AND CANADA

**CALIFORNIA:**

This product contains detectable amounts of arsenic CAS No. 7440-38-2, cadmium CAS No. 7440-43-9, ethyl acrylate CAS No. 140-88-5, and lead CAS No. 7439-92-1 from additives. This product may contain detectable amounts of benzo(a)anthracene CAS No. 56-55-3, benzo(k)fluoranthene CAS No. 207-08-9, benzo(a)pyrene CAS No. 50-32-8, benzo(b)fluoranthene CAS No. 205-99-2, chrysene CAS No. 218-01-9, dibenz(a,h)anthracene CAS No. 53-70-3 and indeno(1,2,3-cd)pyrene CAS No. 193-39-5. These materials are listed by the State of California as known carcinogens. Our testing of this product indicates that these compounds are not always detectable.

This product does not contain detectable amounts of any of the materials listed by the State of California as know to cause reproductive toxicity.

---

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Maine Lubrication Service assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet applies to the material as supplied to the user.

MAINE LUBRICATION SERVICE

