

**MATERIAL SAFETY DATA SHEET**

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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

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**LUBRIPLATE® Lubricants Co.**  
**129 Lockwood St.**  
**Newark, NJ 07105**

**Emergency Telephone Number:**  
**1-800-255-3924-CHEM-TEL (24 hour)**  
**Telephone Number for information:**  
**1-973-589-9150**

**SUBSTANCE: FISKE'S HP-76**

**TRADE NAMES/SYNONYMS:**

**PRODUCT USE:** Petroleum lubricating oil

**CREATION DATE:** 04/03/2008

**REVISION DATE:** 03/05/2009

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**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

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**COMPONENT:** Water

**CAS NUMBER:** 7732-18-5

**EC NUMBER (EINECS):** 231-791-2

**PERCENTAGE:** 70-75

**COMPONENT:** Triethanolamine

**CAS NUMBER:** 102-71-6

**EC NUMBER (EINECS):** 203-049-8

**PERCENTAGE:** 10-15

**COMPONENT:** Ricinoleic acid

**CAS NUMBER:** 61789-44-4

**EC NUMBER (EINECS):** 205-470-2

**PERCENTAGE:** 2-5

**COMPONENT:** Phosphate ester

**CAS NUMBER:** 68815-11-2

**EC NUMBER (EINECS):** not assigned

**PERCENTAGE:** 2-5

**COMPONENT:** Diethanolamine

**CAS NUMBER:** 111-42-2

**EC NUMBER (EINECS):** 203-868-0

**PERCENTAGE:** 0-2

**COMPONENT:** EDTA

**CAS NUMBER:** 105-38-9

**EC NUMBER (EINECS):** not assigned  
**PERCENTAGE:** 0-2

**COMPONENT:** Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triaznine  
**CAS NUMBER:** 4719-04-4  
**EC NUMBER (EINECS):** 225-208-0  
**PERCENTAGE:** 0-2

**COMPONENT:** Polyoxyalkylene  
**CAS NUMBER:** NA  
**EC NUMBER (EINECS):** NA  
**PERCENTAGE:** 0-1

**NOTE:** The IP 346 value of the mineral oil is less than 3%

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### SECTION 3 HAZARDS IDENTIFICATION

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#### **POTENTIAL HEALTH EFFECTS:**

##### **INHALATION:**

**SHORT TERM EXPOSURE:** Irritation

**LONG TERM EXPOSURE:** Lung damage

##### **SKIN CONTACT:**

**SHORT TERM EXPOSURE:** Irritation

**LONG TERM EXPOSURE:** Irritation, skin disorders

##### **EYE CONTACT:**

**SHORT TERM EXPOSURE:** Irritation

**LONG TERM EXPOSURE:** No information available

##### **INGESTION:**

**SHORT TERM EXPOSURE:** Diarrhea, difficulty breathing

**LONG TERM EXPOSURE:** no information on significant adverse effects

**Significant Laboratory Data with Possible Relevance to Humans Health Hazard Evaluation:** There are reports that ingestion of diethanolamine (DEA) produced nervous system injury in dogs and rats. Heart and salivary gland lesions have also been observed in mice treated with DEA cutaneously and in drinking water.

Rats given high doses of DEA developed anemia and testicular lesions. An increased incidence of some skeletal variations suggestive of a slight developmental delay was seen only in the fetuses of rats given 1,500 mg/kg/day cutaneously which also caused significant maternal toxicity. However, no fetal malformations were observed in either rats or rabbits similarly tested.

The National Toxicology Program has concluded that there is clear evidence of liver tumor and some evidence of kidney tumor in mice dermally exposed for their lifetime to DEA. The significance of these findings and their relevance to humans are not clear as DEA was not genotoxic (neither mutagenic nor clastogenic), and did not induce tumors in rats or in transgenic mice similarly treated. Additional research to better understand the significance of these observations to humans, if any, is underway.

Recent analyses of diethanolamine and triethanolamine for N-nitrosodiethanolamine have not revealed its presence at the detection limit of the test (20 ppb). However, amines may react with nitrites or other nitrosating agents to form nitrosamines. Some nitrosamines have been shown to be carcinogenic in laboratory animals.

**HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):**

Health – 1

Flammability – 0

Reactivity – 0

**Not a Controlled Product under (WHMIS) – Canada****Special Protection: See Section 8**

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**SECTION 4 FIRST AID MEASURES**

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**INHALATION:** None required**SKIN CONTACT:** Remove any contaminated clothing and wash with soap and warm water.**EYE CONTACT:** Flush with clear water for 15 minutes or until irritations subside. If irritation persists, consult a physician.**INGESTION:** If ingested, call a physician immediately.

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**SECTION 5 FIRE FIGHTING MEASURES**

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**FIRE AND EXPLOSION HAZARDS:** Intense heat may cause drums to rupture.**EXTINGUISHING MEDIA:** Foam, Dry Chemical, Carbon Dioxide or Water Spray (Fog)**SPECIAL FIRE FIGHTING PROCEDURES:** After water evaporates and fire starts, treat as an oil fire.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**OCCUPATIONAL RELEASE:** Handle as an oil spill. Avoid breathing vapors or mist. Use adequate ventilation.**WASTE DISPOSAL METHOD:** Chemical waste disposal is governed by the Resource Conservation and Recovery Act, as well as by other local, state, and federal laws and regulations.

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**SECTION 7 HANDLING AND STORAGE**

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**STORAGE:** Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidants.

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**EXPOSURE LIMITS:****OIL MIST IN AIR (Not Encountered in Normal Usage):**5 mg/m<sup>3</sup> UK OES TWA10mg/m<sup>3</sup> UK OES STEL

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant (nitrile) gloves.

**RESPIRATOR:** Consider the need for appropriate protective equipment, such as self-contained breathing apparatus, adequate masks and filters. If concentrated vapors are present and adequate ventilation is unavailable, use proper respirator for organic vapors.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL STATE:** liquid

**APPEARANCE:** transparent

**COLOUR:** amber

**PHYSICAL FORM:** oil

**ODOR:** mild odor

**BOILING POINT:** >102 C

**FREEZING POINT:** Not available

**FLASH POINT:** Water solution – does not apply

**LOWER FLAMMABLE LIMIT:** None

**UPPER FLAMMABLE LIMIT:** None

**AUTO IGNITION:** Not available

**VAPOUR PRESSURE:** <13 mm Hg at 25 C

**VAPOR DENSITY (air=1):** Not determined

**SPECIFIC GRAVITY (water=1):** 1.03

**DENSITY:** not available

**WATER SOLUBILITY:** Soluble

**pH:** not available

**VOLATILITY:** not available

**ODOR THRESHOLD:** not available

**EVAPORATION RATE (butyl acetate=1):** <0.01

**VISCOSITY:** not available

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

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**SECTION 10 STABILITY AND REACTIVITY**

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**REACTIVITY:** Stable at normal temperatures and pressures

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**INCOMPATIBLES:** Strong oxidants like liquid oxygen, concentrated oxygen

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products or combustion: oxides of carbon

**POLYMERISATION:** Will not polymerise.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**Water:**

**TOXICITY DATA:**

No data available

**Triethanolamine:**

**TOXICITY DATA:**

4,920 ul/kg oral-rat LD50

**Ricinoleic acid:**

**TOXICITY DATA:**

Greater than 5,000 mg/kg oral-rat LD50

**Phosphate ester:**

**TOXICITY DATA:**

No data available

**Diethanolamine:**

**TOXICITY DATA:**

No data available

**EDTA:**

**TOXICITY DATA:**

Greater than 2,000 mg/kg oral-rat LD50

**Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine:**

**TOXICITY DATA:**

No data available

**Polyoxyalkylene:**

**TOXICITY DATA:**

No data available

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SECTION 12 ECOLOGICAL INFORMATION

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Not available

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SECTION 13 DISPOSAL CONSIDERATIONS

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Dispose in accordance with all applicable regulations

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SECTION 14 TRANSPORT INFORMATION

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**LAND TRANSPORT ADR:** No classification assigned.

**LAND TRANSPORT RID:** No classification assigned.

**AIR TRANSPORT IATA:** No classification assigned.

**AIR TRANSPORT ICAO:** No classification assigned.

**MARITIME TRANSPORT IMDG:** No classification assigned.

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SECTION 15 REGULATORY INFORMATION

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EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED): Not classified as dangerous.

Risk Phrases: R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SARA/TITLE III, Section 313 Status – Diethanolamine <2%

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SECTION 16 OTHER INFORMATION

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