

# Material Safety Data Sheet

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## Kilfrost Tool Oil

**Product Description:** A synthetic lubricant which combines permanently with water. It positively prevents the freezing of pneumatic equipment and provides superior lubrication of working surfaces in the tool. (Ingersoll Rand Part # 3537918, 35379726, 35379734, 35379742)

### Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (202) 483-7616

SECTION 1 COMPOSITION/ INFORMATION ON INGREDIENTS		
COMPONENTS	CAS NUMBER	AMOUNT
Ethylene glycol	107-21-1	100 mg/M <sup>3</sup> (as an aerosol)
Water	7732-18-5	NE
Synthetic sulfonated hydrocarbon	78330-12-8,	NE
Triethanolamine Napthenate	68410-61-7	NE
Oleyl Alcohol	143-28-2	NE

## SECTION 2 FIRST AID MEASURES

**Eye:** Immediately flush with water, and continue washing the eyes for several minutes.

**Skin:** Remove contaminated clothing and flush skin with water.

**Ingestion:** If conscious, give two glasses of water and induce vomiting. Call a physician immediately.

**Inhalation:** Remove to fresh air. Call a physician if discomfort persists.

**NOTES TO PHYSICIAN:** The principal toxic effects of ethylene glycol, when swallowed, are kidney damage and metabolic acidosis. Ethanol is antidotal, and its early administration may block the formation of nephrotoxic metabolites of ethylene glycol in the liver. Ethanol should be given intravenously, as a 5% solution in sodium bicarbonate, at a rate of about 10mL ethanol per hour. A desired therapeutic level of ethanol in blood is 100 mg/dl. Hemodialysis may be required. Pulmonary edema with hypoxemia has been described in a number of patients following poisoning with ethylene glycol. The mechanism of production has not been elucidated, but it appears to be noncardiogenic in origin in several cases. Respiratory support with mechanical ventilation and positive end-expiratory pressure may be required.

## SECTION 3 FIRE FIGHTING MEASURES

### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

**NFPA RATINGS:** Health: 1 Flammability: 0 Reactivity: 0  
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme)

### FLAMMABLE PROPERTIES:

**Flashpoint:** NA

**Autoignition:** NE

**Flammability (Explosive) Limits (% by volume in air):** Lower: NA Upper: NA

**EXTINGUISHING MEDIA:** Alcohol type or all purpose type foams for large fires, water spray, carbon dioxide or dry chemical media for small fires.

#### SECTION 4 ACCIDENTAL RELEASE MEASURES

**Waste Disposal Method:** Dispose in accordance with local, state, or federal regulations. Dispose of absorbed material at an approved waste site or facility.

**Steps to be taken in Case of Spills:** Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities with local regulations.

#### SECTION 5 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limit for total product :** 50 PPM ceiling for vapor and mist combined. ACGIH: 1984-85

**Swallowing:** May cause abdominal discomfort or pain, dizziness, malaise, lumbar pain, oliguria, uremia, and central nervous system depression. Severe kidney damage follows the swallowing of large volumes of ethylene glycol. May be fatal.

**Inhalation:** May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations caused, for example, by heating the material in an enclosed and poorly ventilated workplace may produce nausea, vomiting, headache, and dizziness.

**Skin Contact:** No evidence of adverse health effects from available information.

**Eye Contact:** Liquid, vapor, and mist may cause discomfort in the eye with transient conjunctivitis. Serious corneal injury is not anticipated.

**Effects of repeated overexposure:** Inhalation of mist may produce signs of central nervous system involvement, particularly dizziness and nystagmus.

#### SECTION 6 PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Color:</b> Clear yellow liquid	<b>Vapor Density (Air = 1):</b> NE
<b>Physical State:</b> Liquid	<b>Boiling Point:</b> Wide range
<b>Odor:</b> Chemical odor	<b>Solubility:</b> Soluble in H <sub>2</sub> O
<b>pH:</b> NA	<b>Freezing Point:</b> NE
<b>Vapor Pressure:</b> NE	<b>Specific Gravity:</b> > 1.0 @ 25°C /

#### SECTION 7 STABILITY AND REACTIVITY

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Incompatibility With Other Materials:** May react with strong oxidizing agents, such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

**Hazardous Decomposition Products:** Fumes, smoke, carbon monoxide, oxides of sulfur, and other decomposition products, in case of incomplete combustion.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

#### SECTION 8 ECOLOGICAL INFORMATION

**Oral, dermal, eye, inhalation, chronic, subchronic, etc.** NE

**WHMIS:** Does not meet the definition of a controlled product under the WHMIS regulations

**DSL:** All components are listed in DSL, except one. This one chemical appears on the NDSLlist, and is present in the product at <5% (wt.).

#### SECTION 9 TRANSPORT INFORMATION

**DOT Shipping Name:** NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

**DOT Hazard Class:** NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

#### SECTION 10 REGULATORY INFORMATION

**SARA 313 CATEGORIES:** This product contains ethylene glycol, 107.21.1 @ 59.5%

**For WHMIS and DSL information, see Section 8.**

## **SECTION 11 OTHER INFORMATION**

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse beyond our control, seller makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.