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Product Trade Name

Prepared according to 29CFR 1910.1200.

1		Chemical Product and Company Identification
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FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the

VILTER D Confidential.

**CAS Number** None. Synonyms Generic Chemical Name Mineral oil Product Type Not applicable. Preparation/Revision Date 25 May 2012

Transportation Emergency Phone

No.

U.S.) 11658890-2123125-4023221-102103

2 Hazards Identification

Appearance Water white to light straw liquid. Odor Odorless

Principal Hazards

MSDS No.

. This material has no known health hazards.

## See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
Hazardous Ingredients	This material has no known hazards under applicable laws.
4	First Aid Measures
Eyes	Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
Skin	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation	Remove exposed person to fresh air if adverse effects are observed.
Oral	DO NOT INDUCE VOMITING. Get immediate medical attention.
Additional Information	High pressure injection of oil through the skin is a medical emergency. There may be no sign of injury and no initial pain. Prompt debridement of the wound by a physician is necessary to minimize necrosis and tissue loss.
5	Fire Fighting Measures
Flash Point	>= 177 °C, 350.6 °F COC (Minimum)
Extinguishing Media	CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures	Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Water or foam may cause frothing. Avoid solid streams of water. Use water spray. Use water to cool containers exposed to fire.
Unusual Fire & Explosion Hazards	When heated above the flash point, releases flammable vapors which when mixed with air and exposed to an ignition source can burn or explode if confined. See section 10 for additional information.
6	Accidental Release Measures

Spill Procedures

Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

7 Handling and Storage

**Pumping Temperature** 

Not determined.

Maximum Handling Temperature

ature Not determined.

Handling Procedures

Keep material away from heat, sparks, pilot lights, static electricity and open flame. Use with adequate ventilation. Keep containers closed when not in use. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Avoid skin contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Do not eat, drink or smoke when using this product. Dispose of packaging or containers in accordance with local, regional, national and

international regulations.

Maximum Storage Temperature

Not determined.

Storage Procedures

See section 10 for incompatible materials.

Maximum Loading Temperature Not determined.

8 Exposure Controls/Personal Protection

Exposure Limits None established

Other Exposure Limits Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH

TWA of 5 mg per cubic meter.

Engineering Controls If use generates a mist or vapor, local exhaust ventilation is recommended.

Gloves Procedures The effectiveness of the following fabrics to prevent contact with this material is dependent upon the extent of contact and the

conditions under which the glove is used. Polyvinyl chloride. Polyvinyl alcohol. Viton. Nitrile. Neoprene.

Eye Protection Safety Glasses.

Respiratory Protection Use NIOSH/MSHA approved respirator with a combination organic vapor and high efficiency filter cartridge if

recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other

poorly ventilated areas and for large spill clean-up sites.

Clothing Recommendation Long sleeve shirt is recommended. Launder contaminated clothing before reuse.

9 Physical and Chemical Properties

Flash Point  $>= 177 \, ^{\circ}\text{C}$ , 350.6 °F COC (Minimum)

Upper Flammable LimitNot determined.Lower Flammable LimitNot determined.Autoignition Point343.33 °C, 650 °F

Explosion Data Material does not have explosive properties.

Vapor Pressure < 0.0001 mm Hg (20 °C)

pН Not determined. Specific Gravity 0.91 (15.6 °C) **Bulk Density** Not determined. Water Solubility Insoluble. Percent Solid Not determined. Percent Volatile Not determined. Volatile Organic Compound Not determined. Vapor Density > 5 Air=1 **Evaporation Rate** Not determined. Odor Odorless

Appearance Water white to light straw liquid.

Viscosity Not determined.

Odor Threshold Not determined.

**Boiling Point**  $> 274 \, ^{\circ}\text{C}, > 525.2 \, ^{\circ}\text{F}(\text{Typical})$ 

Pour Point Temperature Not determined.

Melting / Freezing Point Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated

unless otherwise noted.

Not determined.

10 Stability and Reactivity

Stability Material is normally stable at moderately elevated temperatures and pressures.

Decomposition Temperature

Incompatibility Strong oxidizing agents. Strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium

hypochlorite, etc., present a serious explosion hazard.

Polymerization Will not occur.

Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

Conditions to Avoid Not determined.

11 Toxicological Information

- ACUTE EXPOSURE --

Eye Irritation Not expected to cause eye irritation. Based on data from components or similar materials.

Skin Irritation Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin

contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and

cracking of the skin. Material may aggravate an existing dermatitis.

Respiratory Irritation If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the

upper respiratory tract. Based on data from components or similar materials.

Dermal Toxicity The LD50 in rabbits is > 2000 mg/Kg. Based on data from similar materials.

Inhalation Toxicity No data available to indicate product or components may be a toxic inhalation hazard.

Oral Toxicity The LD50 in rats is > 5000 mg/Kg. Based on data from similar materials. Material can be aspirated into the lungs during the

act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Dermal Sensitization Not expected to cause skin sensitization. Based on data from components or similar materials.

Inhalation Sensitization No data available to indicate product or components may be respiratory sensitizers.

- CHRONIC EXPOSURE -

Chronic Toxicity

No data available to indicate product or components present at greater than 1% are chronic health hazards.

Carcinogenicity

This mineral oil is considered to be severely refined and not considered to be carcinogenic under IARC.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity No data available to indicate either product or components present at greater than 0.1% that may cause reproductive

oxicity

Teratogenicity No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

- ADDITIONAL INFORMATION -

Other No other health hazards known.

12 Ecological Information

- ENVIRONMENTAL TOXICITY -

Freshwater Fish Toxicity The acute LC50 is > 1000 mg/L based on similar materials. Freshwater Invertebrates Toxicity The acute EC50 is 100 - 1000 mg/L based on similar materials.

Algal InhibitionNot determined.Saltwater Fish ToxicityNot determined.Saltwater Invertebrates ToxicityNot determined.Bacteria ToxicityNot determined.Miscellaneous ToxicityNot determined.

-- ENVIRONMENTAL FATE --

Biodegradation This product will biodegrade moderately based on OECD 301-type test data for similar products.

**Bioaccumulation** There is no data available to evaluate this material for bioconcentration.

Soil Mobility Not determined.

13 Disposal Considerations

Waste Disposal This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage,

transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14 Transport Information

ICAO/IATA I Not regulated. ICAO/IATA II Not regulated. IMDG Not regulated. IMDG EMS Fire Not applicable. IMDG EMS Spill Not applicable. IMDG MFAG Not applicable. MARPOL Annex II Not determined. **USCG Compatibility** Not determined.

U.S. DOT Bulk Not regulated. DOT NAERG Not applicable. U.S. DOT (Intermediate) Not regulated. U.S. DOT Intermediate NAERG Not applicable. U.S. DOT Non-Bulk Not regulated. U.S. DOT Non-Bulk NAERG Not applicable. Not regulated. Canada Mexico Not regulated.

Bulk Quantity 85000 KG, 187391 lbs.
Intermediate Quantity 11000 KG, 24251 lbs.
Non-Bulk Quantity 400 KG, 882 lbs.

Review classification requirements before shipping materials at elevated temperatures.

15 Regulatory Information

- Global Chemical Inventories --

USA All components of this material are on the US TSCA Inventory or are exempt.

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Substances List.

Switzerland All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Korea All components are in compliance in Korea.

Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of

1990 (R.A. 6969).

China All components of this product are listed on the Inventory of Existing Chemical Substances in China.

Taiwan May require notification before sale in Taiwan.

- Other U.S. Federal Regulations -

SARA Ext. Haz. Subst. This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances

list.

SARA Section 313 This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances

listed under SARA Section 313.

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Acute Hazard No
Chronic Hazard No
Fire Hazard No
Reactivity Hazard No

CERCLA Hazardous Substances None known.

SARA 311 Classifications

State Regulations --

Cal. Prop. 65 This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth

defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

- Product Registrations -

U.S. Fuel Registration Not applicable.
Finnish Registration Number Not Registered
Swedish Registration Number Not Registered
Norwegian Registration Number Not Registered
Danish Registration Number Not Registered
Swiss Registration Number Not Registered
Italian Registration Number Not Registered
Not Registered

- Other / International --

Miscellaneous Regulatory

Information

Not determined.

16 Other Information

US NFPA Codes Health Fire Reactivity Special

0 1 0 N/E

(N/E) - None established

**HMIS** Codes

 Health
 Fire
 Reactivity

 0
 1
 0

Precautionary Labels

• This material has no known health hazards.

Revision Indicators Section: 5 Flash point. Changed: 25 May 2012

Section: 9 Flash point. Changed: 25 May 2012

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