



Material Safety Data Sheet

Product name: **SYNTHESO HT 220 (# 012027)**

Date: March 26, 2003

Replaces: November 1999

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Section 1 - Product and Company Identification

Company: Klüber Lubrication North America L.P.

32 Industrial Dr.
Londonderry, N.H. 03053
Phone: (603) 647-4104
Fax: (603) 647-4105

Emergency telephone #: 1-800-424-9300 (Chemtrec)

Product Use: Lubricating oil

Note: This product is classified as an H2 lubricant in compliance to the regulations of the U.S. Department of Agriculture.

Section 2 - Composition/Information on Ingredients

Ingredient	wt. %	TLV	PEL	Mfr. Rec.
Polyalkylene glycol	~100	N/Ap	N/Ap	5mg/m ³ (mist)

Section 3 - Hazards Identification

Eye Contact: May cause mild irritation upon immediate contact.

Skin contact: Prolonged or repeated contact may cause the removal of skin oils, possibly leading to irritation or dermatitis.

Inhalation: Vapor pressure is very low. However, the inhalation of vapors (generated at high temperature only) or mists may irritate the mucous membranes of the upper respiratory tract and lead to lung damage. Polyalkylene glycol mists have been associated with lung damage in animals.

Ingestion: Minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury. Large amounts may cause irritation to the digestive tract, nausea, vomiting, and diarrhea.

Section 4 - Emergency and First Aid Procedures

After contact with eyes: Flush eyes with plenty of water for 15 minutes. If irritation persists, or if an infection develops, seek medical attention.

After contact with skin: Wash off with soap and plenty of water. Apply skin cream if necessary. Seek medical attention if irritation or infection occurs. Remove contaminated clothing and wash before reuse.

After inhalation: If overcome by product vapor heated to extreme temperatures, or aerosolized mists, immediately move from exposure. If breathing is irregular, start resuscitation and get medical attention.

After ingestion: If large amounts are swallowed, do not induce vomiting. Get medical attention.

Advice to doctor: Treat symptomatically.

Section 5 - Exposure Controls

Eye protection: Wear safety goggles if splashes may occur. Do not wear contact lenses when using chemicals.

Hand protection: Wear chemical resistant gloves.

Body protection: Wear clean, body-covering clothing to minimize dermal exposure.

Ventilation: Under normal conditions of use, no special ventilation is required. However, if vaporized or misted, use local exhaust if possible.

Respiratory protection: No special respiratory protection is required. However, if product is overheated beyond conditions of normal use, or misted, wear the appropriate NIOSH-approved respiratory protection.

Other protection measures: Safety showers, eye wash fountains, and washing facilities should be readily available.



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Section 6 - Fire Fighting Measures

Flash point: ~250°C

Method Used: ASTM D 92

Lower explosion limit: N/Av

Upper explosion limit: N/Av

Extinguishing media: In fire situation, use all appropriate fire fighting media.

Unusual fire and explosion hazards: Product itself does not burn. Exposure to heat may build up pressure in container. Cool with water spray.

Special fire Fighting Procedures: If leak or spill has not ignited, use water spray to disperse any vapor and to flush spills away from ignition sources. Use self-contained breathing apparatus for enclosed or confined spaces or as otherwise needed. Do not use direct stream of water, material may float and re-ignite.

Section 7 - Accidental Release Measures

If product leaks or is inadvertently spilled, eliminate ignition sources and isolate surrounding spill area with the proper containment system to prevent the spill from reaching waterways. Add absorbent and soak up the product. Collect product and absorbent, place in a chemical waste container for proper disposal.

Section 8 - Handling and Storage

Avoid contact with skin and remove soiled or soaked clothing. Wash hands with soap and water before eating, drinking, and/or smoking. Clean skin thoroughly after work and if necessary, apply skin cream.

Store product under normal temperature and pressure.

Store product away from heat sources and food products.

Section 9 - Physical and Chemical Properties

Boiling Point: This product will decompose before boiling

Vapor Pressure (mm Hg.): N/Av

Vapor Density (Air = 1): N/Av

Solubility in Water: soluble

Specific gravity (H₂O = 1): 1.04

Evaporation rate (ether = 1): N/Av

Appearance and odor: yellowish, slightly turbid liquid with a neutral odor.

Section 10 - Stability and Reactivity

Stability: Stable

Conditions to avoid: Open flames and other sources of heat

Materials to avoid: Strong oxidizing agents such as pure oxygen and mineral acids.

Hazardous decomposition products: Fumes, smoke, carbon monoxide, carbon dioxide.

Hazardous polymerization: Will not occur



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Section 11 - Toxicological Information

N/Av

Section 12- Disposal Considerations

Under RCRA, it is the user's responsibility to determine, at the time of disposal, whether the product meets any of the criteria for a hazardous waste defined in 40 CFR 261 Subpart C. As a new product it would not be considered RCRA hazardous waste.

Section 13- Transportation Information

Proper Shipping Name	Hazard Class or Division	UN ID	Packing Group
N/Av			

Section 14 – Regulatory Information

All product components comply with all applicable rules and orders under the Toxic Substance Control Act (TSCA).

Section 15 - Additional Information

HMIS Rating: Health: 3 Flammability: 1 Reactivity: 0 Personal Protection: X

Unk. = Unknown N/Av = Not Applicable N/Av = Not Available ~ = Approximately