

MATERIAL SAFETY DATA SHEET

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DATE PREPARED: 02/02/06

1 PRODUCT IDENTIFICATION

PRODUCT NAME: HA-1
CHEMICAL FAMILY: Severely Refined Mineral Oil and Additives
PRODUCT USE: Hydraulic Fluid

NFPA

Health - 1
Flammability - 1
Reactivity - 0

2 PRECAUTIONARY INFORMATION

May cause eye irritation. Prolonged and/or repeated skin contact may cause irritation.
Inhalation of mist or vapor may be irritating.

3 COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENTS | OSHA PEL | ACGIH TLV | ACGIH STEL | CAS # |
|---|-------------|--------------|---------------|------------|
| This Material Safety Data Sheet (MSDS) has been prepared under guidelines in OSHA Hazard Communication Standard 29 CFR 1910.1200. | | | | |
| Solvent Dewaxed Heavy Paraffinic Distillate | 5 mg/m3* | 5 mg/m3* | 10 mg/m3* | 64742-65-0 |

* oil mist

None of the components of this product at concentrations greater than or equal to 0.1% are listed as a carcinogen or potential carcinogen by NTP, IARC, OSHA.

4 POTENTIAL HEALTH EFFECTS

EYE: Product contacting the eyes may cause irritation.
SKIN: Prolonged and/or repeated skin contact may cause irritation.
INGESTION: Do not induce vomiting. Small amounts aspirated into lungs during ingestion or vomiting may cause mild to severe pulmonary injury.
INHALATION: Not expected to be a route of exposure due to low volatility of product. At elevated temperatures, vapors or mists may be produced which may cause irritation to the respiratory tract.
CHRONIC EFFECTS OF OVEREXPOSURE: Prolonged and/or repeated exposure may cause irritation to the skin, eyes, or respiratory tract.
PRIMARY ROUTE(S) OF ENTRY:
Eye Skin X Inhalation Ingestion

5 FIRST AID

SKIN: Remove any contaminated clothing. Wash thoroughly for 15 minutes with soap and water. If irritation occurs, get medical attention.
EYES: Immediately flush with plenty of water for 15 minutes. If irritation occurs, get medical attention.
INGESTION: Do not induce vomiting. Get medical attention.
INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. Get medical attention.

6 EMPLOYEE PROTECTION

RESPIRATORY: None under normal conditions. NIOSH-approved supplied-air respirator when exposed to mists or vapor from heated material.
VENTILATION: Mechanical (general) is satisfactory. Provide ventilation sufficient to prevent exceeding recommended exposure limit.
HANDS: Oil impervious gloves, if needed, to avoid prolonged or repeated skin contact.
EYES: Splash goggles or face shield when eye contact may occur.
OTHER: Avoid contact with skin and eyes. Wash thoroughly after handling.

7 PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE: Straw color
ODOR: Mild
BOILING POINT: Not determined
SPECIFIC GRAVITY (H₂O = 1): ~ 0.88
VAPOR PRESSURE (mm Hg): Not determined
VAPOR DENSITY: Not determined
SOLUBILITY IN WATER: Insoluble
EVAPORATION RATE (Butyl acetate = 1): < 1
PHYSICAL FORM: Liquid

8 REACTIVITY

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen sulfide; Oxides of carbon, phosphorus, sulfur, zinc.
HAZARDOUS POLYMERIZATION: Will not occur
STABILITY: Stable
INCOMPATIBILITY: Avoid contact with strong oxidizing agents such as liquid chlorine, concentrated oxygen, sodium hypochlorite, etc.

9 FIRE AND EXPLOSION DATA

FLASH POINT (COC): > 400 F (204 C)
FLAMMABLE LIMITS (approx. % by vol. in air):
LEL - No data available UEL - No data available
AUTOIGNITION TEMP: Not determined
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray.
SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None indicated.

10 SPILL OR LEAK PROCEDURES

Recover free product. Contain any spill to prevent entry to sewers or streams. Add sand, earth or suitable absorbent to spill area. Transfer to closed container.

11 WASTE DISPOSAL METHODS

Dispose of in accordance with all applicable local, state and federal regulations. Use licensed waste oil disposal contractor, remove to regulated landfill, or incinerate in an approved facility. Empty containers may contain product residue. Do not cut, heat or weld on or around empty containers.

12 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in closed containers away from heat or open flames. Do not store with oxidizing agents.
Not for internal use. Avoid contact with skin, eyes and clothing.

13 TOXICOLOGICAL INFORMATION

This product is a mixture not tested as a whole for toxicity. A threshold limit value of 5 mg/m³ is suggested for oil mist.

14 ECOLOGICAL INFORMATION

Not available.

15 REGULATORY INFORMATION

All components of this product are listed on the TSCA Inventory.
This product does not contain a following SARA Title 3 Section 313 (40 CFR 372) reportable chemical.
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16 TRANSPORTATION INFORMATION

Not regulated by US DOT, IMO, or ICAO.

17 OTHER INFORMATION

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