



Wong / KOT

REC'D MAY 23 2003

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE (516) 249-8500
CHEMTREC (800) 424-9300

DATE PREPARED: 10/02/98

1 PRODUCT IDENTIFICATION

NFPA
Health - 1
Flammability - 1
Reactivity - 0

PRODUCT NAME: HA-1
CHEMICAL NAME: Mixture
CHEMICAL FAMILY: Petroleum hydrocarbon plus additives
PRODUCT USE: Hydraulic fluid

2 PRECAUTIONARY INFORMATION

HMS
Health - 1
Flammability - 1
Reactivity - 0

Product contacting eyes may cause irritation. Prolonged and/or repeated skin contact may cause irritation. Inhalation of mist or vapor may cause irritation.

3 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	OSHA PEL	OSHA TWA	ACGIH TLV-TWA	ACGIH TLV-STEL	CAS #
This Material Safety Data Sheet (MSDS) has been prepared under guidelines in OSHA Hazard Communication Standard 29 CFR 1910.1200.					
Distillates (petroleum), hydrotreated heavy paraffinic	5 mg/m3*	5 mg/m3*	5 mg/m3*	10 mg/m3*	64742-54-7

+ total dust * oil mist n/e - not established
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.

This product is a mixture not tested as a whole for acute oral LD50, acute dermal LD50 and inhalation LC50 toxicity and skin and eye irritation. Based on available component toxicological data, acute oral LD50 is expected to be > 5g/kg.

4 HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY
Eye Skin X Inhalation Ingestion

ACUTE EFFECTS OF OVEREXPOSURE

EYES: Product contacting the eyes may cause eye irritation.
SKIN: Prolonged and/or repeated contact tends to remove skin oils, possibly leading to irritation and dermatitis.
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.

CHRONIC EFFECTS OF OVEREXPOSURE

Prolonged and/or repeated contact may cause skin irritation.
MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE
No specific information available.

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 or until subsides. If irritation persists, get medical attention.
INGESTION: Do not induce vomiting. Get medical attention.
INHALATION: Vapor pressure is very low. Vapor inhalation under ambient conditions is improbable under normal conditions. If overcome by vapor from hot product, immediately remove from exposure to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing, give oxygen. 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 and ODOR: Yellow color; Mild petroleum odor

BOILING POINT: Not determined

SPECIFIC GRAVITY (H₂O = 1): ~ 0.88

VAPOR PRESSURE (mm Hg): < 1 mm Hg @ 20 C

VAPOR DENSITY (Air = 1): > 5

MELTING POINT: Not applicable

PHYSICAL FORM: Liquid

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE (Butyl acetate = 1): < 0.01

8 REACTIVITY

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Fumes, smoke, 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): (of base oil) 402 F (206 C)

FLAMMABLE LIMITS (approx. % by vol. in air):

LEL - Not determined UEL - 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

Not classified as a hazardous waste under RCRA. 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.

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.

13 REGULATORY INFORMATION

All components of this product are listed on the TSCA Inventory.

This product does not contain a SARA Title 3 Section 313 and 40 CFR 372 reportable chemical.

14 TRANSPORTATION INFORMATION

Not regulated under DOT, IMO or ICAO regulations

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