LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

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MATERIAL SAFETY DATA SHEET

HFH1

LUBRI-LOY HYDRAULIC FLUID, FOOD GRADE H1

ISOS 22, 32, 46, 68, 100, 150

LUBRI-LOY CATALOG #: HFH1-022, HFH1-022-640, HFH1-032, HFH1-032-640, HFH1-046, HFH1-046-640, HFH1-068, HFH1-068-640, HFH1-100, HFH1-100-640, HFH1-150, HFH1-150-640

DATE ISSUED: 11/07/2013 **REPLACES ISSUE:** 1/26/2007

I PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Product Name	Lubri-Loy **Hydraulic Fluid, Food Grade H1** ISOs22, 32, 46, 68, 100, 150
Lubri-Loy Catalog Number's	HFH1-022, HFH1-022-640, HFH1-032, HFH1-032-640, HFH1-046, HFH1-046-640, HFH1-068, HFH1-068-640, HFH1-100, HFH1-100-640, HFH1-150, HFH1-150-640
Date Issued	11/07/2013
Replaces Issue	1/26/2007
24-Hr. Emergency Phone	CHEMTREC (800) 424-9300

II COMPONENTS AND HAZARD INFORMATION

PRODUCT	CAS NO. OF COMPONENTS
Mineral Oil, USP	8042-47-5
Polybutene	9003-29-6
Antioxidant, Antiwear, and Antirust Additives	

(See Section 8, "Exposure Controls/Personal Protection", for exposure guidelines.)

PLEASE NOTE THAT THE CHEMICAL IDENTITY Of SOME OR ALL OF THE ABOVE HAZARDOUS INGREDIENTS IS CONFIDENTIAL INFORMATION AND MAY BE WITHHELD AS PERMITTED BY 29CFR 1910.1200 AND VARIOUS STATE RIGHT TO KNOW LAWS.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

	HEALTH	FLAMMABILITY	REACTIVITY
NFPA Code	0	1	0
MSDS Code	0	1	0

III HEALTH AND HAZARD INFORMATION

Emergency Overview	This product has been evaluated and does not require any hazard warning on the label under OSHA criteria. Low hazard for usual industrial or commercial handling by trained personnel.

POTENTIAL HEALTH EFFECTS:

Eye Contact	No significant health hazards identified.
Skin Contact	No significant health hazards identified.
Ingestion	Negligible effect; may act as a laxative.
Inhalation	No significant health hazards identified.

IV FIRST AID MEASURES:

Eye	Flush immediately with large amounts of water. If irritation occurs, call a physician.
Skin	Wash exposed area of skin with soap and water. If skin irritation or an allergic reaction occurs, get medical attention.
Ingestion	If symptomatic, call a physician or poison control center promptly.
Inhalation	If adverse effects occur, remove to uncontaminated area. Get medical attention if symptoms persist.

V FIRE FIGHTING MEASURES:

Flash Point	430°F (221°C) minimum
Method Used	Cleveland Open Cup
Flammable Limits	LEL (% vol. in air): Not determined. UEL (% vol. in air): Not determined.
Autoignition Temperature	Not determined.
Flammability Classification	Slight hazard. Material must be preheated before ignition will occur (OSHA Class IIIB).
Extinguishing Media	Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, foam, steam) or water fog. Do not use streams of water as this will scatter the liquid and spread the fire. A water spray may be used to keep fire-exposed containers and surroundings cool.
Unusual Fire and Explosion Hazards	May create dense smoke during combustion. Mild fire hazard when heated above its flash point.
Firefighting Equipment	Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.
Hazardous Combustion Products	Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

VI ACCIDENTAL RELEASE MEASURES:

Keep out of sewers and treat as an oil spill. Evacuate all non-essential personnel. Dike around spilled material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dispose of in accordance with current applicable laws and regulations and product characteristics at time of disposal or divert to recovery unit.

VII HANDLING AND STORAGE:

Handling	No special requirements.
Storage	Store in a cool, well-ventilated area in sealed containers away from strong oxidizing agents or combustible material.

VIII EXPOSURE CONTROLS / PERSONAL PROTECTION:

Eye	None required; however, use of eye protection is good industrial practice.
Skin	None required; however, use of protective gloves/clothing is good industrial practice.
Inhalation	Avoid breathing mist. If ventilation is inadequate, use NIOSH/MSHA certified respirator that will protect against dust/mist
Engineering Controls	Control airborne concentrations below the exposure guidelines.
Exposure Guidelines	Limits: OSHA PEL: 5 mg/m3 (oil mist)(1989)(1971) ACGIH TLV-TWA: 5 mg/m3 (oil mist) ACGIH TLV-STEL: 10 mg/m3 (oil mist)

IX CHEMICAL AND PHYSICAL PROPERTIES:

Appearance and Odor	Colorless, oily and viscous liquid. Slight odor.

pH	Not determined.
Vapor Pressure	< 1.0 mmHg @ 20°C (68°F)
Vapor Density (Air=1)	>1
Boiling Point	Not determined.
Melting Point	Not determined.
Solubility	Negligible in water (below 0.1%); soluble in hydrocarbons.
Specific Gravity	0.855 - 0.894 @ 25°C/25°C (77°F)
Pour Point	<32 °F

X STABILITY AND REACTIVITY:

Stability	Stable.
Conditions to Avoid	Extreme heat.
Materials to Avoid	Avoid chlorine, fluorine, and other strong oxidizers.
Hazardous Decomposition	None identified.
Hazardous Polymerization	Will not occur.

XI TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY DATA:

Eye Irritation	Testing not conducted. See Other Toxicity Data.
Skin Irritation	Testing not conducted. See Other Toxicity Data.
Dermal LD50	Testing not conducted. See Other Toxicity Data.
Oral LD50	Testing not conducted. See Other Toxicity Data.
Inhalation LC50	Testing not conducted. See Other Toxicity Data.

OTHER TOXICITY DATA:

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on information from similar products, the ingredients, technical literature, and/or professional experience.

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC).

XII ECOLOGICAL INFORMATION:

No definitive information available on ecological impact if product is released to the environment.

XIII DISPOSAL INFORMATION:

Disposal must be in accordance with applicable federal, state, or local regulations. We recommend that containers be either professionally reconditioned for reuse by certified firms or properly disposed of by certified firms to help reduce the possibility of an accident. "Empty" drums should not be given to individuals.

XIV TRANSPORTATION INFORMATION:

U.S. Department of Transportation	Not regulated.

XV REGULATORY INFORMATION:

CERCLA Sections 102A/103 Hazardous Substances (40 CFR Part 302.4)	Not reportable.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355)	Not regulated.
SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370)	This product is defined as hazardous by OSHA under 29 CFR Part 1910.1200(d).
SARA Title III Section 313 (40 CFR Part 372)	Not regulated.
U.S. Inventory (TSCA)	All components comply with TSCA.
FOOD CONTACT STATUS:	
FDA	This product is approved for use by the FDA under the following sections of 21 CFR:-Part 178.3570 as a lubricant for use on machinery with incidental food contact when used in accordance with the specifications of this subpart.
USDA	H1 Status: This product is acceptable to the USDA as a lubricant with incidental food contact for use in official meat and poultry establishments.

XVI OTHER INFORMATION

Kosher Certification	This product is certified Kosher.

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.