Lubricants usa
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MATERIAL SAFETY DATA SHEET

EMERGENCY OVERVIEW
This clear light yellow slippery liquid has health hazards upon exposure to vapors generated at high temperatures, may cause respiratory irritation. Harmful, possible risk if swallowed. Concentrate may cause irritation to eyes and skin. Get immediate medical attention if ingested.

NFPA RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: Hydraulic fluid **ISSUE DATE:** **February 15, 2006**

THIS LUBRICANTS USA PRODUCT IS: **VESTAN FR FLUID**

CAS NUMBER: Mixture
SYNONYMS / GENERAL NAMES: Water polyglycol hydraulic fluid
24 HOUR EMERGENCY TELEPHONE: (CHEMTREC) 1-800-424-9300
TECHNICAL INFORMATION: 1-800-442-5823

2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
Propane-1, 2-diol	57-55-6	0%	
Water	7732-18-5	40%	
Proprietary ingredients	Proprietary	55-59 %	

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	Skin contact, inhalation, ingestion.
TARGET ORGANS:	Skin, lungs, eyes.
INHALATION:	Spray mist can irritate airways and lungs. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. Single exposure to vapors is not likely to be hazardous.
IRRITANCY:	This product can cause mild, transient, eye irritation with short-term contact with liquids or sprays.
INGESTION:	Overexposure via ingestion may cause diarrhea and weakness. Inhalation of vapors or aerosols may cause respiratory tract irritation.
REPRODUCTIVE EFFECTS:	N/D
CANCER INFORMATION:	N/D

4. FIRST AID MEASURES

EYES:	May cause moderate corneal injury. Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention.
DERMAL:	A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Remove contaminated shoes and clothing, wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods.

INGESTION:	If person is conscious and can swallow, give two glasses of water. Do not induce vomiting. If vomiting occurs, give fluids again. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.
INHALATION:	Vapors are minimal under ambient conditions due to physical properties: If overcome by vapor of hot product, immediately remove from source of exposure. Get medical attention if any discomfort continues. If victim is not breathing, immediately begin rescue breathing. If breathing is difficult, a qualified individual should administer 100 percent humidified oxygen. Seek medical attention immediately. Keep the affected individual warm and at rest.
INJECTION:	Injection of fluid requires immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT, °C(°F): N/D (burns only after water is evaporated off)
FLAMMABLE LIMITS (% BY VOLUME): **LOWER:** N/D **UPPER:** N/D
EXTINGUISHING MEDIA: Use dry chemical, alcohol resistant foam, carbon dioxide or water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
AUTOIGNITION TEMPERATURE: N/A
EXPLOSION DATA: N/A
NFPA RATING: **HEALTH:** 2 **FLAMMABILITY:** 1 **REACTIVITY** 0
INSTRUCTIONS: **Pressure will increase in over heated, closed containers.**

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard—do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, cleanup spills as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will mix with in water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

Ecotoxicity Discharges are expected to cause only localized and non-persistent environmental damage. Expected to be toxic to many water organisms. Not expected to bioconcentrate in aquatic organisms. Fish are threatened because of lack of oxygen

Environmental fate The product will contaminate water. Biodegradation in soil and water is a major fate process. For detailed ecological call the non-emergency number shown in section 1.

7. HANDLING AND STORAGE

HANDLING & STORAGE PROCEDURES: Avoid water contamination and extreme temperatures to minimize product degradation. Keep container closed. Do not store with strong oxidizing agents. Do not store at temperatures above 120°F or in direct sunlight for extended periods of time.

Empty containers may contain product resides that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.
GLOVES PROTECTION:	Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Use heat protective gloves when handling product at elevated temperatures.

EYE PROTECTION:	Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is likely, especially if material is heated above 125° F (or 51° C). Have suitable eye wash water available.
RESPIRATORY PROTECTION:	Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).
CLOTHING RECOMMENDATION:	Avoid prolonged and/or repeated skin contact. If splashing or spraying is expected chemical-resistant (Tyvek®, nitrile or neoprene) clothing should be worn. This might include long-sleeves, apron, slicker suit, boots and additional facial protection. If general contact occurs, promptly remove soaked clothing and take a shower.
OTHER COMMENTS:	Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. Since standards/control limits have not been established for this product, the exposure limits shown below are suggested as minimum control guidelines.
Occupational exposure guidelines	Applicable workplace exposure levels TWA: 20; STEL; NE (mg/M^3) from ACGIH (TLV) TWA: 20; STEL; 30 (mg/ M^3) from OSHA (PEL)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear light yellow liquid
ODOR:	Mild or faint odor of glycol
pH:	Basic (9.5)
VAPOR PRESSURE, mm Hg (25°C):	>1
VAPOR DENSITY:	>1
MELTING POINT:	NA
BOILING POINT, 760 mm Hg, °C:	101 C (215 F)
SOLUBILITY IN WATER:	Infinitely soluble in water.
SPECIFIC GRAVITY:	1.06 (Water = 1)
EVAPORATION RATE:	<1 (n-butyl acetate = 1)
VISCOSITY 40°C (100°C)	46 cSt @ 40 C
MOLECULAR WEIGHT:	N/A
PERCENT VOLATILE:	Negligible volatility

10. STABILITY AND REACTIVITY

STABILITY:	Stable
INCOMPATIBILITY:	Strong oxidizers
POLYMERIZATION:	Will not occur
THERMAL DECOMPOSITION:	Oxides of nitrogen and carbon such as CO_2, CO, smoke, fumes, aldehydes, ketones, organic acids and polymer fragments.

11. TOXICOLOGICAL INFORMATION

OVERVIEW	No experimental toxilogical data on the preparation as such is available.
DERMAL IRRITATION:	Product is mildly irritating to the skin and slightly toxic on prolonged or repeated contact.
INHALATION TOXICITY:	ND
INGESTION IRRITATION:	ND
AGGRAVATED MEDICAL CONDITIONS:	ND

CHRONIC OR ACUTE EXPOSURE SYMPTOMS	Overexposure via ingestion may cause diarrhea and weakness. Inhalation of vapors or aerosols may cause respiratory tract irritation.
OTHER REMARKS	ND

12. HEALTH INFORMATION

HMIS CODE: HEALTH: 1 FIRE: 0 REACTIVITY: 0

No	**HIGHLY TOXIC**	No	**SENSITIZER**
No	**TOXIC**	No	**REPRODUCTIVE EFFECTS**
No	**CORROSIVE**	No	**MUTAGEN**
No	**IRRITANT**		

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Determine compliance status with all applicable requirements prior to disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	
HAZARD CLASS:	
HAZARD IDENTIFICATION NUMBER:	
DOT PLACARD:	N/A
COMPATIBILITY CATEGORY:	N/A

15. REGULATORY INFORMATION

SARA SECTION 313 - TOXIC CHEMICALS:
This product contains no toxic chemicals under SARA Section 313 and 40 CFR Part 372.

SARA SECTION 311 - HAZARD CATEGORIES:
This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established be Sections 311 and 312 of SARA as indicated below:

NO	**IMMEDIATE (ACUTE) HEALTH HAZARD**	NO	**SUDDEN RELEASE OF PRESSURE HAZARD**
NO	**DELAYED (CHRONIC) HEALTH HAZARD**	NO	**REACTIVE HAZARD**
NO	**FIRE HAZARD**		

SARA SECTION 302 – EXTREMELY HAZARDOUS WASTE:
This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):
Under the CWA, discharges of fluids to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:
As defined by CERCLA, the term “hazardous substance” does not include any ingredients or fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY
TSCA Inventory: No ingredients.

CALIFORNIA PROPOSITION 65
This product contains no ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

NEW JERSEY RIGHT-TO-KNOW LABEL
Water-glycol hydraulic fluid.

ADDITIONAL REGULATORY REMARKS
Pennsylvania State RTK. CAS 57-55-6 (propane-1,2-diol)

16. OTHER INFORMATION

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information was prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Lubricants USA believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4

AP = approximately EQ = equal > = greater than < = less than NA = not applicable
ND = no data NE = not established

ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act (1980)
EPA = Environmental Protection Agency
HMIS = Hazardous Materials Information System
IARC = International Agency for Research on Cancer
NFPA = National Fire Protection Association
NIOSH = National Institute of Occupational Safety and Health
NLGI = National Lubricating Grease Institute
NPCA = National Paint and Coating Manufacturers Association
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
RQ = Reportable quantity
SARA = Superfund Amendments and Reauthorization Act (1986)
TSCA = Toxic Substance Control Act