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EMERGENCY: INFOTRAC 1-800-535-5053 24 HOURS/DAY, 7 DAYS/WEEK

This MSDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - PRODUCT IDENTIFICATION

Product Name: EcoSafe™ FR-68
General Or Generic Id: Polyether Polyol Hydraulic Fluid
Dot Hazard Classification: Not Regulated

SECTION II - COMPONENTS

Chemical Name: Polyether Polyol
CAS Number: 9003-13-8
Percentage Range: 90-95%
Hazardous Per 29 CFR 1910.1200: No
Exposure Standards: None established

Descriptive Name: Solution of Polymer in Synthetic Lubricant- Proprietary Mixture (Ethylene, Vinyl Ester, Copolymer <30%, Diester Lubricant >70%)
CAS Number: Supplier Proprietary
Percentage Range: 5 - 10%
Hazardous Per 29 CFR 1910.1200: No
Exposure Standards: None established

SECTION III - HAZARDS IDENTIFICATION

May be harmful if swallowed. May cause eye irritation. May cause mucous membrane irritation. May cause respiratory irritation.

SECTION IV - FIRST AID MEASURES

First aid:

Eyes: Immediately flush with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician at once.

Skin: Not a skin irritant. Washing any substance off the skin is a good safety practice.

Ingested: Do not induce vomiting unless directed to do so by medical personnel. Call a physician at once.

Inhaled: If a person experiences nausea, headache or dizziness, person should stop work immediately and move to fresh air until symptoms disappear. If breathing is difficult, administer oxygen, keep the person warm and at rest. Call a physician. In the event that the individual inhales enough vapor to lose consciousness, person should be moved to fresh air at once.

Medical conditions aggravated by exposure: none known

SECTION V - FIRE AND EXPLOSION INFORMATION

Flash Point: >450.0 Deg. F

Explosive Limit: Unavailable

Extinguishing Media: Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Spray.

Hazardous Decomposition Products: May form toxic materials: Carbon Dioxide and Carbon Monoxide, etc.

Firefighting Procedures: Use water to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Spill mitigation procedures: Evacuation procedures must be placed into effect. Evacuate all non-essential personnel. Utilize emergency response personal protective equipment prior to the start of any response. Stop source of spill as soon as possible and notify appropriate personnel.

Air release: Vapors may be suppressed by the use of water fog or spray. Contain all liquid for treatment and or disposal as a (potential) hazardous waste.

Water release: This material is lighter than and insoluble in water at 20 deg. C. Notify all downstream water users of possible contamination. Divert water flow around spill if possible and safe to do so. If unable to divert, created an underflow dam to contain material. Continue to handle as described in land spill.

Land spill: Create a dike or trench to contain materials. May be absorbed using sand, clay or commercial absorbent. Do not place spill materials back in their original containers.

Personal protection for emergency spill and firefighting situations: Additional respiratory protection is necessary. You are recommended to use a self-contained breathing apparatus (SCBA) positive pressure unit. Wear long sleeve shirt and chemically protective apron when contact with material may occur.

Compatible materials for response: neoprene, chlorinated polyethylene, polyvinyl chloride, butyl rubber, viton, polyvinyl alcohol and saranex.

SECTION VII - HANDLING AND STORAGE

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.

Storage conditions: Do not store at temperatures above 49 deg. C. (120 deg. F)

Shelf life: 1 year in drums, 2 years in bulk

Incompatible materials: strong oxidizers

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: If vapors or mists are generated, wear NIOSH/MSHA approved respirator.

Ventilation: Use local ventilation to limit exposure.

Protective gloves: Impermeable gloves.

Eye protection: Chemical splash goggles in compliance with OSHA regulations are advised.

Other protective equipment: To prevent repeated or prolonged skin contact, wear long sleeve shirt and chemically protective apron.

SECTION IX – PHYSICAL DATA

Boiling Point: Not applicable
Freezing Point: -46° C (-50° F)
Specific Vapor Density: No Data
Specific Gravity: 0.99
Evaporation Rate: No Data
Vapor Pressure @ 25 Deg. C: No Data
Solubility In Water: < 1g/100g @ 25 C
Volatiles Percent (Volume): <1.0%
Ph: Not Applicable
Appearance: Clear Blue, Viscous Liquid

SECTION X - REACTIVITY DATA

Hazardous Polymerization: Will not occur.
Stability: Stable
Incompatibility: Avoid contact with strong oxidizing agents.

SECTION XI – TOXICOLOGICAL/HEALTH INFORMATION

Routes of Absorption: Eye contact, ingestion, inhalation
Human Threshold Response Data:
Odor: No data
Irritation: No data
Immediate Dangerous to Life or Health: None established

Effects of Overexposure:

Eyes: May cause irritation consisting of reversible redness, swelling and mucous discharge to the conjunctiva.

Skin: Not a skin irritant.

Ingested: May be harmful if swallowed. May cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.

Inhaled: May cause irritation to the upper respiratory tract. Any irritation would be transient with no permanent damage expected.

Interaction with other chemicals which enhance toxicity: none known

Acute target organ toxicity: There are no organs known to be damaged from exposure to the product.

Chronic target organ toxicity: There are no known or reported effects from repeated exposure.

Reproductive and developmental toxicity: There are no known or reported effects on reproductive function or fetal development.

Carcinogens: this product is not known or reported to be carcinogenic by and reference source including IARC, OSHA, NTP, and EPA.

Mutagenic: This product is not known or reported to be mutagenic.

SECTION XII – ECOLOGICAL INFORMATION

Animal toxicology acute toxicity:

Inhalation lc 50: no data available

Dermal ld 50: > 2g/kg (rabbit)

Oral ld 50: approximately 3 g/kg (rat). May be harmful if swallowed.

irritation: not a skin irritant. Eye and mucous membrane irritant. May be a respiratory irritant.

Aquatic toxicity: no data available.

SECTION XIII – DISPOSAL CONSIDERATION

Waste disposal: This product does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of subpart C, nor is it listed as a hazardous waste under subpart D. As a non-hazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration. Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.

SECTION XIV – TRANSPORT INFORMATION

ICAO/IATA	Not regulated.
IMDG (Ambient)	Not regulated.
IMDG (Elevated)	Not determined.
IMDG EMS	Not applicable.
IMDG MFAG	Not applicable.
IMO Marine Bulk	Not determined.
USCG Compatibility	Not determined.
TDG Bulk (Ambient)	Not regulated.
TDG Bulk (Elevated)	Not available.
TDG Non-Bulk	Not regulated.
U.S. DOT Bulk (Ambient)	Not regulated.
U.S. DOT Bulk (Elevated)	Not available.
U.S. DOT Non-Bulk	Not regulated.
DOT NAERG	Not applicable.

SECTION XV – REGULATORY INFORMATION

U.S. TSCA Inventory	All components of this material are on the US TSCA Inventory.
Other TSCA Reg.	None known.
SARA Ext. Haz. Subs.	This product does not contain greater than 1.0% of any Chemical substance on the SARA Extremely Hazardous Substances list.
Sara Section 313	This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SECTION XV – REGULATORY INFORMATION CONTINUED

TDG Regulated Limits	None known.
CERCLA Hazardous Substances Cal.Prop. 65	None known. This product is not known to contain any chemicals known to the state of California to cause cancer or birth defects. However, we do not conduct routine analysis for all listed materials.
U.S. Fuel Registration U.S. Dept. of Agriculture	Not applicable. This product has not been filed with the USDA to support H2 approvals.
U.S. Tariff Heading Number	Not available.
Schedule B Number	Not available.
FDA Approval	Not applicable.
EEC EINECS	All components are in compliance with the EC Seventh Amendment Directive 92/32/EEC.
Finnish Registration Number	Not registered.
Sweden Registration Number	Not registered.
Norway Registration Number	Not registered.
Danish Registration Number	Not registered.
Switzerland Bag T Registration Number	Not registered.
Japan METI	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea	All components are in compliance in Korea.
Korean Registration Number	Not registered.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	This product may require notification in China.
China Registration Number	Not registered.
New Zealand Registration Number	Not registered.
Malta Registration Number	Not registered.
Ukraine Registration Number	Not registered.

SECTION XVI – LABEL AND OTHER INFORMATION

NFPA Codes:	HEALTH - 1	FLAMMABILITY - 1	REACTIVITY - 0
HMIS Codes:	HEALTH - 1	FLAMMABILITY - 0	REACTIVITY - 0

Caution!!! Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.

Handling & storage: avoid contact with eyes and prolonged or repeated contact with skin. Wear safety glasses. Minimize exposure through good hygienic practices.

First aid:

Eyes: Flush thoroughly with water. Get immediate medical attention.

Skin: Wash thoroughly with soap and water.

Inhaled: If affected, remove to fresh air. If breathing is difficult, get medical attention.

Ingested: **Do not induce vomiting unless directed to by medical personnel.** Call a physician immediately. Do not give anything by mouth to an unconscious person.

Prepared by: Sharon L. Haiser

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