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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-100
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: 93-98 %
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: 1 - 3%
Hazardous Per 29 CFR 1910.1200: No
Exposure Standards: None established

SECTION III – 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 ° C: No Data
Solubility in Water: Insoluble
Volatiles Percent (Volume): < 1.0%
pH: Not Applicable
Appearance: Clear Blue, Viscous Liquid

SECTION IV - FIRE AND EXPLOSION INFORMATION

Flash Point: > 450 ° F

Explosive Limit: Unavailable

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

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

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

NFPA Codes: HEALTH - 1

FLAMMABILITY - 1

REACTIVITY - 0

SECTION V - TOXICOLOGY AND HEALTH INFORMATION

Routes of Absorption: Eye contact, ingestion, and inhalation

Warning Statements and Warning Properties: May be harmful if swallowed. May cause eye irritation. May cause mucous membrane irritation. May cause respiratory irritation.

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.

FIRST AID:

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

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 immediately.

SECTION V - TOXICOLOGY AND HEALTH INFORMATION *Continued*

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 vapors to lose consciousness, person should be moved to fresh air at once.

Medical Conditions Aggravated by Exposure: None known

Interaction with Other Chemicals That Enhance Toxicity: None known

Animal Toxicology Acute Toxicity:

Inhalation IC 50: No data available

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

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

Irritation: Not a skin irritant. Eye and mucous membrane irritant and possibly a respiratory irritant.

Acute Target Organ Toxicity: 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.

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

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

Aquatic Toxicity: No data available.

SECTION VI - REACTIVITY DATA

Hazardous Polymerization: Will not occur.

Stability: Stable

Incompatibility: Avoid contact with strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES

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 °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 Fire Fighting 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.

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 VIII - PROTECTIVE EQUIPMENT TO BE USED

Respiratory Protection: If vapors or mists are generated, wear a 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 - SPECIAL PRECAUTIONS OR OTHER COMMENTS

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 ° C (120 ° F)

Shelf Life: One (1) year in drums, two (2) years in bulk

Incompatible Materials: Strong oxidizers

SECTION X - ADDITIONAL REGULATORY STATUS INFORMATION

Toxic Substances Control Act: The components of this product are listed on the toxic substance control act inventory.

Superfund Amendments and Re-authorization Act Title III Hazard Categories, per 40 CFR 370.2: Health - Immediate (acute) Physical - none

Emergency Planning and Community Right to Know, Per 40 CFR 355, App.A:

Extremely Hazardous Substance- Threshold Planning Quantity: None established

Supplier Notification Requirements, per 40 CFR 372.45: None established

SECTION XI - LABEL INFORMATION

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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Supersedes:

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