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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: EcoGear™ 320
Generic Id: Polyether Polyol Fluid
Dot Hazard Classification: Not applicable

SECTION II – COMPONENTS

CAS or Chemical Name: Polyalkylene Glycol
CAS #: 9003-13-8
Percentage Range: 90-95%
Hazardous Per 29 CFR 1910.1200: Yes
Exposure Standards: None established

SECTION III - PHYSICAL DATA

Boiling Point: Decomposes before boiling
Pour Point: - 46 ° C (-50 ° F)
Vapor Density: Not applicable
Vapor Pressure @ 25 ° C: No Data
Specific Gravity: 1.0
Appearance: Clear, pale yellow liquid
Solubility in Water: Insoluble
Volatiles Percent: < 1.0% by volume
pH @ 25 ° C: Not applicable

SECTION IV - FIRE AND EXPLOSION INFORMATION

Flash Point: > 560.0 ° F (290.0 ° C)
Explosive Limit: Unavailable
Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, and water spray.
Hazardous Decomposition Products: May form toxic materials such as carbon dioxide and carbon monoxide, etc.

SECTION IV - FIRE AND EXPLOSION INFORMATION *Continued.*

Fire Fighting Procedures: Use water to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus. Direct water stream may cause violent frothing, but fine water spray may help control the situation

Fire and Explosions Hazards: Product supports combustion. Keep unnecessary people away; isolate hazard area and deny unnecessary entry. When using water spray, boil-over may occur when the product temperature reached the boiling point of water. (tank-type scenarios, not spills)

NFPA Codes: **HEALTH – 1** **FLAMMABILITY - 0** **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 Date: No data

Odor Threshold: No data

Irritation Threshold: No data

Immediately Dangerous to Life or Health: The IDLH concentration has not been established for this product.

First Aid:

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

If in Eyes: Immediately flush with water for at least 15 minutes. Occasionally lifting the upper and lower eye lids. Call a physician at once.

Ingestion: Induce vomiting. Call a physician at once. Do not give anything by mouth if the person is unconscious or if having convulsions.

Acute: May be harmful if swallowed. Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: Nausea, vomiting, lethargy or diarrhea.

Inhalation: If a person experiences nausea, headache, or dizziness person should stop work immediately and move to fresh air until these 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 and a physician should be called immediately. If breathing has stopped, artificial respiration should be given immediately. In all cases, ensure adequate ventilation and provide respiratory protection before the person returns to work.

Acute: If inhaled, may cause irritation to the upper respiratory tract. Any irritation would be transient with no permanent damage expected.

SECTION V - TOXICOLOGY AND HEALTH INFORMATION *Continued.*

Medical Conditions Aggravated by Exposure: None known or reported

Interactions with Other Chemicals, Which Enhance Toxicity: None known or reported

Animal Toxicology Acute Toxicity:

Inhalation LC 50: No available data

Dermal LD 50: > 2 g/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, and may be a respiratory irritant.

Acute 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 any reference source including IARC, OSHA, NTP, and EPA.

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

Aquatic Toxicity: No available data

SECTION VI - REACTIVITY DATA

Hazardous Polymerization: Will not occur

Stability: Stable

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide

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, create 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 container. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using soap solution and flush with large amounts of water.

SECTION VII - SPILL OR LEAK PROCEDURES *Continued...*

Personal Protection for Emergency Spill and Fire-Fighting Situations: Additional respiratory protection is necessary when a spill or fire involving this product occurs. You are recommended to use a self-contained breathing apparatus (SCBA) positive pressure unit. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, gloves, hard hat, splash-proof goggles and impervious clothing, i.e., chemically impermeable suit. Compatible materials for response to this material is neoprene, chlorinated polyethylene, polyvinyl chloride, butyl rubber, viton, polyvinyl alcohol and saranex.

Waste Disposal: If this product becomes a waste, it 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.

Respirator Type: NIOSH/MSHA approved organic vapor plus dust/mist filter

Ventilation: Use local ventilation to limit employee exposure.

Protective Gloves: Impermeable gloves

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier).

Other Protective Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing, boots, apron and a protective suit.

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 Limitations: 1-year in drums, 2 years in bulk.

Incompatible Materials for Storage or Transport: 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 Reauthorization 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 or goggles, resistant gloves, and other appropriate protective equipment essential for your operation. Do not transfer to unlabeled container. Minimize exposure through good hygienic practices.

FIRST AID:

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

Skin: Wash thoroughly with soap and water.

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

Ingestion: Immediately drink large quantities of water. Induce vomiting. Call a physician immediately. Do not give anything by mouth to an unconscious person.

The information in this material safety data sheet should be provided to all that will use, handle, store, transport, or otherwise be exposed to this product. The information has been prepared for the guidance of plant engineering, operations and management and for persons working with this product. We believe this information is up to date and reliable, but we make no warranty that it is.

Date prepared: 03-02-00

Prepared by: Derek Hodges

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