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

SECTION I – IDENTIFICATION

Product Name: EcoSafe® TF-25
Chemical Identification: Polyalkylene Glycol
CAS #: Mixture

SECTION II – INGREDIENTS AND HAZARD CLASSIFICATION

Chemical Name: Polyoxyalkylene Glycol
CAS Number: Trade Secret
Hazardous Per 29 CFR 1910.1200: No
Exposure Standards: None established

SECTION III – PHYSICAL DATA

Boiling Point (760 mmHg): Not applicable
Freezing Point: Not established
Vapor Density (air = 1): No Data
Specific Gravity: .985 25°C
Evaporation Rate: No Data
Vapor Pressure @ 20 ° C: <0.01 mmHHg @ 20°C
Solubility In Water: <0.1%
Odor: Low odor
Appearance: Light amber liquid

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point: 453º F, 234°C Pensky Martin Closed Cup
468°F, 242°C Cleveland Open Cup
Extinguishing Media: Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. **Do not use direct water stream**. Will spread fire.
Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide**.**

Firefighting Procedures: Keep people away. Isolate fire area and deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water. Product may be carried across water surface spreading fire or contacting an ignition source. Do not use direct water stream. May spread fire.
Protective Equipment for Fire Fighters: Wear positive-pressure self contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves.) If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION V – REACTIVITY DATA

Hazardous Polymerization: Will not occur.
Stability: Thermally stable at typical use temperatures.
Incompatibility: Avoid contact with strong oxidizing agents and strong acids.

SECTION VI – HEALTH HAZARD INFORMATION

Light amber liquid. Low odor. No significant immediate hazards for emergency response are known.

Potential Health Effects:

Inhalation: At room temperature, vapors are minimal due to physical properties; a single exposure is not likely to be hazardous. If material is heated or mist is produced, concentrations may be attained that are sufficient to cause irritation and other effects.
Eyes: Essentially nonirritating to eyes.
Skin Contact: Short single exposure may cause slight skin irritation. Prolonged or repeated exposure may cause slight skin irritation. Material may be handled at elevated temperatures; contact with heated material may cause thermal burns. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.
Swallowing: Single dose oral toxicity is considered to be low. Small amounts swallowed

incidental to normal handling operations are not likely to cause injury; swallowing amounts

larger than that may cause injury.

Subchronic: Observations in animals exposed to excessive amounts of similar polyglycols

include slight kidney and liver effects.

Skin: The LD50 for skin absorption in rabbits for a similar material is greater than 2,000 mg/kg.

Ingestion: The oral LD50 for rats for similar materials is greater than 2,000 mg/kg.

Additional Studies: Overexposure to vapor generated at high temperatures may result in eye and respiratory tract irritation, dizziness, nausea and the inhalation of harmful amounts of material**.**

Environmental Fate:

Degradation and Persistence: Based largely or completely on information for similar material. Biodegradation under aerobic static laboratory conditions is moderate (BOD20 or BOD28 /ThOD between 10 and 40%). Material considered biodegradable based on 83% DOC disappearance in the EPA Aerobic Aquatic Biodegradation test.

Ecotoxicity: Based largely or completely on information for similar material. Material is moderately toxic to aquatic organisms on an acute basis (LC50 between 1 and 10 mg/L in most sensitive species).

First aid:

Eyes: Flush eyes with plenty of water.
Skin: Wash off in flowing water or shower.
Ingested: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Inhaled: Remove to fresh air if effects occur. Consult a physician.

Note to physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE

Handling: Product on surfaces can cause slippery conditions. Product shipped/handled hot can cause thermal burns. Product handled hot may require additional ventilation or local exhaust.
Storage: Keep containers tightly closed when not in use. Store in steel , stainless steel, polypropylene, polyethylene lined containers, Teflon, glass lined container, aluminum, Plasite 3066 lined containers, Plasite 3070 lined containers, or 316 stainless steel.
Respiratory protection: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator.
Engineering Controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Skin Protection: use gloves impervious to this material. Use gloves with insulation for thermal protection, when needed.
Eye/Face Protection: Use safety glasses.

SECTION VIII – CONTROL MEASURES

Protect People: Isolate area. May be a slipping hazard.
Protect the Environment: Contain liquid to prevent contamination of soil, surface water, or ground water.
Cleanup: Contain spill if possible.

Disposal: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial, and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION IX – TRANSPORTATION INFORMATION

Dot Hazard Classification: Not Regulated
U.S. DOT Bulk (Ambient) Not regulated.
U.S. DOT Non-Bulk Not regulated.

SECTION X – REGULATORY INFORMATION

Sara Section 313: **To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.**

SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered, under applicable definitions, to meet the following categories: **Not to have met any hazard category**.

Toxic Substances Control Act (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

State Right-to-Know: This product is not known to contain any substances subject to the disclosure requirements of New Jersey or Pennsylvania.

OSHA Hazard Communication Standard: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Canadian Regulations:
WHMIS Information: The Canadian Workplace Hazardous Materials Information System Classification for this product is: This product is not a "Controlled Product" under WHMIS.

SECTION XI – SPECIAL PRECAUTIONS

Prepared By: Mark D. Latunski
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Date Prepared: 11/20/1998

The information provided herein is believed to be accurate to the best of the company's knowledge as of the date of its issue. We do not warrant or guarantee the information provided and will not be held liable for any loss or damage from its use.