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M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 317-636-4400

Product Code: 87803

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PRODUCT NAME: TRIETHYLENE GLYCOL - (UDEX BRAND)

Effective Date: 12/11/85 Date Printed: 09/24/87

MSD: 000271

1. INGREDIENTS:

Triethylene glycol

CAS# 000112-27-6

99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 543.9F; 286C

VAP PRESS: 1.0 mmHg @ 20C

VAP DENSITY: 3.18

SOL. IN WATER: Completely miscible

SP. GRAVITY: 1.1 @ 25/25C

APPEARANCE: Colorless liquid.

ODOR: Mild odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 350F; 177C

METHOD USED: FMCC

FLAMMABLE LIMITS

LFL: 0.9%

UFL: 9.2%

EXTINGUISHING MEDIA: Water fog, alcohol resistant foam, CO2, dry chemical.

FIRE & EXPLOSION HAZARDS: Not available.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure self-contained breathing apparatus.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Will ignite in air at 700F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning produces normal products of combustion, including carbon monoxide, carbon

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4. REACTIVITY DATA: (CONTINUED)

dioxide, and water.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Small spills: Soak up with absorbent material and collect for disposal. Large spills: dike to prevent contamination of waterways, then pump into suitable containers for disposal.

DISPOSAL METHOD: Burn in an approved incinerator in accordance with all local, state, and federal requirements.

6. HEALTH HAZARD DATA:

EYE: Essentially nonirritating to eyes.

SKIN CONTACT: Prolonged or repeated exposure may cause skin irritation. May cause more severe response if skin is abraded (scratched or cut).

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The dermal LD50 has not been determined.

INGESTION: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of larger amounts may cause injury. The oral LD50 for rats is 16,800-22,060 mg/kg.

INHALATION: No adverse effects are anticipated from inhalation.

SYSTEMIC & OTHER EFFECTS: Based on available data, repeated exposures are not anticipated to cause any significant adverse effects. Did not cause cancer in long-term animal studies. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. In animal studies, has been shown not to interfere with reproduction.

7. FIRST AID:

EYES: Irrigate immediately with water for at least five minutes.

SKIN: Wash off in flowing water or shower.

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7. FIRST AID: (CONTINUED)

INGESTION: Induce vomiting if large amounts are ingested.
Consult medical personnel.

INHALATION: Remove to fresh air if effects occur. Call a
physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care.
Treatment based on judgment of the physician in response to
the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE: None established.

VENTILATION: Good general ventilation should be sufficient.

RESPIRATORY PROTECTION: In misty atmospheres, use an approved
mist respirator.

SKIN PROTECTION: For brief contact, no precautions other than
clean body-covering clothing should be needed.

EYE PROTECTION: Use safety glasses.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Practice reasonable care to avoid exposure.

Trace quantities of ethylene oxide (EO) may be present in this
product. While these trace quantities could accumulate in
headspace areas of storage and transport vessels, they are not
expected to create a condition which will result in EO
concentrations greater than 0.5 ppm (8 hour TWA) in the
breathing zone of the workplace for appropriate applications.
OSHA has established a permissible exposure limit of 1.0 ppm
8 hr TWA for EO. (Code of Federal Regulations Part 1910.1047
of Title 29).

MSDS STATUS: Revised 1 - 9.

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