## 1. CORRECTIVE RESPONSE ACTIONS

**Stop discharge.**

**Dilute and disperse.**

## 2. CHEMICAL DESIGNATIONS

**2.1 CG Compatibility Group:** 40, Glycol ethers

**2.2 Formula:** C₆H₁₂OCH₂OH

**2.3 IMO/UN Designation:** Currently not available

**2.4 DOT ID No.:** Not listed

**2.5 CAS Registry No.:** 122-99-6

**2.6 NAIRG Guide No.:** Not listed

**2.7 Standard Industrial Trade Classification:** 51616

## 3. HEALTH HAZARDS

**3.1 Personal Protective Equipment:** Positive pressure self-contained breathing apparatus, protective clothing, chemical goggles, gloves and boots.

**3.2 Symptoms Following Exposure:** May cause moderate eye irritation and moderate corneal injury. Excessive exposure may cause skin irritation and hemolysis.

**3.3 Treatment of Exposure:**

- **Inhalation:** Call for medical aid. Remove to fresh air. If shortness of breath or difficulty breathing occurs, give oxygen. If necessary, call for an ambulance.

- **Ingestion:** Do not induce vomiting. Call for medical aid. Emesis (if allowed) at patient's request. Provide plenty of water. Call for medical aid if symptoms occur.

- **Skin Contact:** Wash with plenty of water for 15 minutes. Call for medical aid if necessary. Remove contaminated clothing and shoes.

- **Eye Contact:** Not pertinent.

**3.4 TLV-TWA:** Not listed.

**3.5 TLV-STEL:** Not listed.

**3.6 TLV-Ceiling:** Not listed.

**3.7 Toxicity by Ingestion:** Grade 2; LD₅₀ = 1.26 mg/kg (rat)

**3.8 Toxicity by Inhalation:** Currently not available.

**3.9 Chronic Toxicity:** Liver, kidney, thyroid and blood effects.

**3.10 Vapor (Gas) Irritant Characteristics:** vapors cause a slightsmarting of eyes and respiratory system if present in high concentration. The effect is temporary.

**3.11 Liquid or Solid Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smearing and reddening of skin.

**3.12 Odor Threshold:** Currently not available

**3.13 IDLH Value:** Not listed.

**3.14 OSHA PEEL-TWA:** Not listed.

**3.15 OSHA PEEL-STEL:** Not listed.

**3.16 OSHA PEEL-Ceiling:** Not listed.

**3.17 EPA AEGL:** Not listed

## 4. FIRE HAZARDS

**4.1 Flash Point:** 250°F

**4.2 Flammable Limits in Air:**

- Lower Flammable Limit: Not listed
- Upper Flammable Limit: Not listed

**4.3 Fire Extinguishing Agents:** Water fog, carbon dioxide, dry chemical, alcohol foam.

**4.4 Fire Extinguishing Agents Not to be Used:** Currently not available

**4.5 Special Hazards of Combustion Products:** Currently not available

**4.6 Behavior in Fire:** Currently not available

**4.7 Auto Ignition Temperature:** Currently not available

**4.8 Electrical Hazards:** Currently not available

**4.9 Burning Rate:** Currently not available

**4.10 Abnormal Flame Temperature:** Currently not available

**4.11 Stoichiometric Air to Fuel Ratio:** 45.2 (calc.)

**4.12 Flame Temperature:** Currently not available

**4.13 Combustion Molar Ratio (Reactant to Product):** 13.0 (calc.)

**4.14 Minimum Oxygen Concentration for Combustion:** MOCC; Not listed

## 5. CHEMICAL REACTIVITY

**5.1 Reactivity with Water:** No reaction

**5.2 Reactivity with Common Materials:**

- With strong oxidizing agents: May cause burning
- With strongly alkaline or acid solutions: May cause burning
- With alkali metals: May cause burning
- With concentrated nitric acid: May cause burning

**5.3 Stability During Transport:** Stable

**5.4 Neutralizing Agents for Acids and Caustics:** Not pertinent

**5.5 Polymerization:** Will not occur

**5.6 Inhibitor of Polymerization:** Not pertinent

## 6. WATER POLLUTION

**6.1 Aquatic Toxicity:** Currently not available

**6.2 Waterfowl Toxicity:** Currently not available

**6.3 Biological Oxygen Demand (BOD):**

- Currently not available

**6.4 Food Chain Concentration Potential:**

- Currently not available

**6.5 GESAMP Hazard Profile:**

- Bioaccumulation: 0
- Damage to living resources: 1
- Human Oral hazard: 1
- Human Contact hazard: II
- Reduction of amenities: XX

## 7. SHIPPING INFORMATION

**7.1 Grades of Purity:** 90%

**7.2 Storage Temperature:** Ambient

**7.3 Inert Atmosphere:** Currently not available

**7.4 Venting:** Currently not available

**7.5 IMO Pollution Category:** D

**7.6 Ship Type:** Data not available

**7.7 Barge Hull Type:** Currently not available

## 8. HAZARD CLASSIFICATIONS

**8.1 49 CFR Category:** Not listed

**8.2 49 CFR Class:** Not pertinent

**8.3 49 CFR Package Group:** Not listed

**8.4 Marine Pollutant:** Not pertinent

**8.5 NPFA Hazard Classification:**

- Category Classification
  - Health Hazard (Blue): 0
  - Flammability (Red): 1
  - Instability (Yellow): 0

**8.6 EPA Reportable Quantity:** Not listed

**8.7 EPA Pollution Category:** Not listed

**8.8 RORA Waste Number:** Not listed

**8.9 EPA PFPA List:** Not listed

## 9. PHYSICAL & CHEMICAL PROPERTIES

**9.1 Physical State at 15° C and 1 atm:** Liquid

**9.2 Molecular Weight:** 112.18

**9.3 Boiling Point at 1 atm:** 245.6°C = 518.8°F

**9.4 Freezing Point:** Not pertinent

**9.5 Critical Temperature:** Currently not available

**9.6 Critical Pressure:** Currently not available

**9.7 Specific Gravity:** 1.104

**9.8 Liquid Surface Tension:** 42 dynes/cm

**9.9 Liquid Water Interfacial Tension:** Currently not available

**9.10 Vapor Specific Gravity:** 4.8

**9.11 Ratio of Specific Heats of Vapor (Gas):**

- Currently not available

**9.12 Latent Heat of Vaporization:**

- Currently not available

**9.13 Heat of Combustion:**

- Currently not available

**9.14 Heat of Decomposition:**

- Currently not available

**9.15 Heat of Solution:**

- Currently not available

**9.16 Heat of Polymerization:**

- Currently not available

**9.17 Heat of Fusion:**

- Currently not available

**9.18 Limiting Value:**

- Currently not available

**9.19 Reid Vapor Pressure:**

- Currently not available

### NOTES

**9.19 Liquid Water Interfacial Tension:**

**JUNE 1999**
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<th>Pounds per cubic foot</th>
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<th>Pounds per square inch</th>
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