Material Safety Data Sheet – Dipropylene Glycol

SECTION I · PRODUCT IDENTIFICATION

CHEMTREC – 24HR Emergency Telephone 1-800-424-9300
Manufacturers Address: Information Phone: (912) 443-6702
916 West Lathrop Avenue Date Prepared: 22 Sept 08
Savannah, Georgia 31415 Preparer: F. Spaeth

Synonym: DPG, Oxabispropanol
Chemical Family: Glycol

SECTION II · HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS Number</th>
<th>%WT</th>
<th>TLV</th>
<th>PEL</th>
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<tr>
<td>Dipropylene Glycol</td>
<td>25265-71-8</td>
<td>100</td>
<td>N/D</td>
<td>N/D</td>
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SECTION III · HAZARDOUS IDENTIFICATION

Potential Acute Health Effects: No Immediate Health Hazard
Potential Chronic Health Effects: No Delayed Health Hazard

SECTION IV · PHYSICAL and CHEMICAL PROPERTIES

Boiling Point Range: 433 °F
pH: 6.0
Solubility In Water: Miscible
Appearance/Odor: Clear colorless liquid with slight odor.
Melting Point/Freezing Point: < -76 °F

Vapor Density (Air=1): 4.6
Vapor Pressure (mmHg): < 0.1
VOC %: N/D
Specific Gravity (H₂O=1): 1.02

SECTION V · FIRE FIGHTING MEASURES

Flash Point: 260 °F
Auto Ignition: N/D
Extinguishing Media: Water spray, CO₂, dry chemical, or foam is recommended.
Flammable Limits: Lower: N/D  Upper: N/D
Fire Fighting Procedures: Cool fire-exposed containers with water spray to prevent container weakening and possible rupture. Wear pressure breathing apparatus and structural firefighter’s protective clothing. Approach fire from upwind to avoid hazardous vapors and decomposition products.
Unusual Fire and Explosion Hazards: None

SECTION VI · STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.
Conditions to Avoid: Extreme Temperatures and pure oxygen.
Incompatibility: Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products: Oxides of Carbon, irritating aldehydes and ketones may be formed on burning.
Hazardous Polymerization: Will not occur.
SECTION VII · STORAGE AND HANDLING

Precautions To Be Taken In Handling and Storage: Do not eat, drink or smoke in storage area or where material is in use. Wash after handling. Always store in tightly sealed, properly labeled, original container. Containers should be grounded to prevent electrostatic accumulation hazard. Store in a cool, dry well ventilated area.
Other Precautions: Follow Label Instructions and Precautions.

SECTION VIII · HEALTH AND FIRST AID

Skin: Slightly irritating. Repeated or prolonged contact can cause defatting and drying.
Eyes: Slightly irritating. Transitory irritation accompanied by redness. Vapors may be irritating.
Inhalation: High vapor concentrations may be irritating to respiratory system. Breathing of vapor may cause headaches, irritation of throat and may cause central nervous system depression.
Ingestion: Product is low to slightly toxic. May cause gastric distress, diarrhea and vomiting.

FIRST AID PROCEDURES:
Eyes: Flush with large amounts of cool running water for at least 15 minutes. If irritation persists get medical attention.
Skin: Wash skin with soap and water. If irritation persists seek medical attention.
Inhalation: For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.
Ingestion: DO NOT induce vomiting. Drink large amounts of water. Seek medical attention immediately.

SECTION IX · EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Eye Protection when pouring. Goggles, safety glasses with side shields are recommended.
Respiratory Protection: Where adequate ventilation is not available an approved NIOSH organic vapor respirator must be worn. In confined areas, use a self-contained breathing apparatus.
Skin Protection: Wear chemical resistant gloves.
Ventilation: General Mechanical ventilation to prevent TLV from exceeding control limits.
Protective Clothing: Selection of protective clothing depends on potential exposure conditions and may include gloves, aprons and other protective items.
Other Equipment: Eye wash station and shower in close proximity to use are advised

SECTION X · ACCIDENTAL RELEASE MEASURES

Small Spill: Stop source of spill. Absorb on inert media and collect into suitable container.
Large Spill: Shut off or plug source of spill. Dike area to contain spill. Maximize recovery of as much liquid as possible into a suitable container. Absorb residual on inert media and collect into suitable container.
Personal Protection in Case of Large Spill: Wear protective equipment and/or garments as described in Section IX as conditions warrant.

SECTION XI · DISPOSAL CONSIDERATIONS

Waste Disposal Method: Avoid contaminating ground and surface water. Prevent material from entering sewer and ground water systems. Do not flush to drain. Not a RCRA hazardous waste if discarded in its purchased form. Follow local, state and federal regulations for disposal
SECTION XII · TRANSPORTATION

Proper Shipping Name: Not regulated by U.S. DOT
Hazard Class:
UN Number:
Packaging Group:

SECTION XIII · TOXICOLOGY

Carcinogenicity: Not listed by any agency.
Mutagenicity: Not a mutagenic.
Reproductive: No data available.
Sensitization: Not considered a sensitizer

SECTION XIV · REGULATORY

RMP/PSM: No listed.
CERCLA-RQ: None established.
EPCRA 311/312: Yes, see Section III
EPCRA 313: No
FIFRA: No documented information available.
RCRA-CODE: No Hazardous Waste Identification.
TSCA: Listed

SECTION XV · OTHER INFORMATION

The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.