**Material Safety Data Sheet**

**Identification**

**Product #:** T5945-5  
**Name:** Triethylene Glycol, 99%  
**CAS #:** 112-27-6

**Toxicity Hazards**

**RTECS #:** YF4550000  
**TRIETHYLENE GLYCOL**

**Irritation Data**

**SKN-RBT 500 MG/24HR MOD**

**Toxicity Data**

<table>
<thead>
<tr>
<th>Source</th>
<th>Toxicity Data</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orl-HMN</td>
<td>LD50: 5000 MG/KG</td>
<td></td>
</tr>
<tr>
<td>Orl-RAT</td>
<td>LD50: 17 GM/KG</td>
<td></td>
</tr>
<tr>
<td>IPR-MUS</td>
<td>LD50: 8141 MG/KG</td>
<td></td>
</tr>
<tr>
<td>SCI-MUS</td>
<td>LD50: 8750 MG/KG</td>
<td></td>
</tr>
<tr>
<td>IVN-MUS</td>
<td>LD50: 6500 MG/KG</td>
<td></td>
</tr>
<tr>
<td>ORL-RBT</td>
<td>LD50: 8400 MG/KG</td>
<td></td>
</tr>
<tr>
<td>ORL-GPG</td>
<td>LD50: 7900 MG/KG</td>
<td></td>
</tr>
<tr>
<td>ORL-GPG</td>
<td>LD50: 10600 MG/KG</td>
<td></td>
</tr>
</tbody>
</table>

**Reviews, Standards, and Regulations**

- **EPA TSCA Chemical Inventory, 1986**
- **EPA TSCA Test Submission (TSCATS) Data Base, June 1997**
- **Meets Criteria for Proposed OSHA Medical Records Rule**

**Only selected registry of toxic effects of chemical substances (RTECS). Data is presented here. See actual entry in RTECS for complete information.**

**Health Hazard Data**

**Acute Effects**

May be harmful by inhalation, ingestion, or skin absorption. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract. Causes skin irritation. Prolonged exposure can cause: nausea, headache and vomiting.

**First Aid**

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Wash contaminated clothing before reuse.

**Melting Point:** -7 C  
**Boiling Point:** 205 C  
**Specific Gravity:** 1.125  
**Vapor Density:** 5.18
MATERIAL SAFETY DATA SHEET

CATALOG #: T5945-5
NAME: TRIETHYLENE GLYCOL, 99+% 

FIRE AND EXPLOSION HAZARD DATA

AUTO IGNITION TEMP.: 699 °F
LOWER EXPLOSION LEVEL: .9%
UPPER EXPLOSION LEVEL: 9.2%
FLASH POINT: 330 °F

EXTINGUISHING MEDIA
WATER SPRAY
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

SPECIAL FIRE-FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

REACTIVITY DATA

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
STRONG ACIDS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE

SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
ARSOX ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING, SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
KEEP TIGHTLY CLOSED.
HYGROSCOPIC.
STORE IN A COOL, DRY PLACE.

ADDITIONAL PRECAUTIONS AND COMMENTS

NOT APPLICABLE

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.
ATTN: SAFETY DIRECTOR  
UNIVERSITY OF WISCONSIN WHITEWATER  
P O BOX 296  
WHITewater WI 53190

DATE: 08/12/88  
CUST # 523216  
P.O. # UNI91465

TO: SAFETY DIRECTOR  
SUBJECT: MATERIAL SAFETY DATA SHEETS (MSDS'S)

AUGUST 12, 1988

ENCLOSED ARE MATERIAL SAFETY DATA SHEETS FOR PRODUCTS YOU HAVE RECENTLY PURCHASED. THESE ARE BEING SENT TO YOUR ATTENTION SO THAT YOU CAN DIRECT THE INFORMATION TO THOSE IN YOUR ORGANIZATION WHO REQUIRE IT.

ALDRICH'S POLICY IS TO PROVIDE MSDS'S WITH THE FIRST ORDER FOR PRODUCTS WHICH ARE CONSIDERED HAZARDOUS. ON SUBSEQUENT ORDERS, NO ADDITIONAL MSDS'S WILL BE PROVIDED UNLESS A SIGNIFICANT CHANGE IN INFORMATION OCCURS.

THANK YOU FOR YOUR CONTINUED USE OF ALDRICH PRODUCTS.

ALDRICH CHEMICAL COMPANY  
MSDS DEPARTMENT