MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME: Trihibiol 50
REVISED DATE: May 31, 1989
TRANSPORTATION: EMERGENCY PHONE NUMBER (CHEMTREC): (800) 424-9300
CHEMICAL NAME: Trihibiol 50
NFPA CODE: Health: 1 Fire: 1 Reactivity: 0
HMIS SYSTEM: Health: 1 Flammability: 1 Reactivity: 0

SECTION 1. HAZARDOUS INGREDIENTS

This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA, IARC or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

Ethylene Glycol
Diethylene Glycol

SECTION 2. FIRE AND EXPLOSION HAZARDS

FLASH POINT, °F: None
UPPER FLAMMABLE LIMIT: Not determined
LOWER FLAMMABLE LIMIT: Not determined
EXTINGUISHING MEDIA: Water spray may be ineffective on fire but can protect firefighters and cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. Use a NIOSH approved positive pressure self-contained breathing apparatus. Keep container tightly closed. Isolate from oxidizers, heat and open flame.
SPECIAL FIREFIGHTING PROCEDURES: None
UNUSUAL FIRE & EXPLOSION HAZARDS: Closed containers may explode if exposed to extreme heat. Applying to hot surface requires special precautions. Empty container very hazardous! Follow all label precautions!

SECTION 3. HEALTH HAZARD DATA

ORAL TOXICITY: Harmful or fatal if swallowed. Swallowing may cause abdominal irritation, nausea, vomiting and diarrhea.
EYE IRRITATION: Liquid causes eye irritation.
SKIN IRRITATION: Primary irritation to skin: defatting, dermatitis. Absorption thru skin increases exposure.
OTHER: None
TLV: 50 ppm (Ceiling Value)
Lowest known LD50 (oral): 107-21-1 5840 mg/kg (rats)
Lowest known LD50 (skin): 107-21-1 9530 mg/kg (rabbits)

SECTION 4. SPECIAL PROTECTION INFORMATION

VENTILATION PROCEDURE: Local exhaust necessary. Ventilate to keep air below 45 ppm. If over TLV, in accordance with 29 CFR 1910.134, use a NIOSH approved positive-pressure self-contained breathing apparatus.
GLOVE PROTECTION: Wear ethylene glycol impervious gloves.
EYE PROTECTION: Wear OSHA standard goggles or face shield.
OTHER PROTECTION: None normally required.
SECTION 5  PHYSICAL DATA

VAPOUR PRESSURE: 0.4 @ 20°C
SPECIFIC GRAVITY: 1.12 @ 60°F
WATER SOLUBILITY: Soluble
PERCENT VOLATILE: 97.0

VAPOUR DENSITY: 2.1
EVAPORATION RATE: Not determined
ODOR: Mild
APPEARANCE: Green liquid

SECTION 6  STABILITY

STABILITY: Stable
INCOMPATIBILITY: Oxidizing agents
POLYMERIZATION: Will not occur
THERMAL DECOMPOSITION: Carbon monoxide, Carbon dioxide

SECTION 7  SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: Small spill: Mop up with absorbent material and transfer to hood.
Large spill: Isolate from oxidizers, heat and open flame. Persons without proper protection should be kept from the area until cleaned up.

WASTE DISPOSAL: Small Spill: Evaporate until all vapors are gone. Dispose of remainder by legally applicable methods. Large: Recycle or incinerate observing local, state and federal health, safety and pollution regulations.

SECTION 8  SPECIAL PRECAUTIONS

SPECIAL PRECAUTIONS: Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, braze or weld drums. Empty container very hazardous! Follow all label precautions!

SECTION 9  TRANSPORTATION AND LABELING

DOT PROPER SHIPPING NAME: None
DOT HAZARD CLASS: None

SECTION 10  OTHER REGULATORY INFORMATION

SARA SEC 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40CFR372:

<table>
<thead>
<tr>
<th>CAS#</th>
<th>CHEMICAL NAME</th>
<th>% IN WEIGHT</th>
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<tbody>
<tr>
<td>107-21-1</td>
<td>Ethylene Glycol</td>
<td>45-47.5</td>
</tr>
<tr>
<td>20321-32-7</td>
<td>Diethylene Glycol</td>
<td>0-5</td>
</tr>
</tbody>
</table>

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

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