

Humco Holding Group, Inc.
7400 Alumax Drive
Texarkana, TX 75501
903-334-6200

Item # 0395-1031

Glycerin

Date Prepared: 01/06/10

SECTION 1 PRODUCT IDENTIFICATION

Product: Glycerin 99.7% USP, FCC **General or Generic ID:** Polyol

Emergency Telephone Numbers:

Humco Holding Group, Inc. 800-662-3435
Chemtec 800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT | CAS No. | % by Wt. |
|------------|---------|----------|
| Glycerin | 56-81-5 | 100.0 |

SECTION 3 HAZARDOUS IDENTIFICATION

Potential Health Effects

Eye Contact: May cause mild eye irritation. Symptoms include stinging, tearing and redness.

Skin Contact: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin and skin burns.

Swallowing: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation: Breathing of vapor or mist is possible.

Symptoms of Exposure: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways).

Target Organ Effects: No data.

Developmental Information: No data.

Cancer Information: No data.

Other Health Effects: No data.

Primary Route(s) of Entry: Inhalation, skin contact.

SECTION 4 FIRST AID MEASURES

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Glycerin

Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Skin Contact: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Eye Contact: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Note to Physician: Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

SECTION 5

FIRE FIGHTING MEASURES

Flash Point: 390.0°F (198.8°C) PMCC

Explosive Limit: NA

Autoignition Temperature: No data.

Flammable Limits in Air % by Volume: Lower – 1.9% Upper - 36.0%

Hazardous Products of Combustion: May form: acrolein, carbon dioxide and carbon monoxide.

Fire & Explosion Hazards: No special fire hazards are known to be associated with this product.

Extinguishing Media: Alcohol foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions: Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

| | Codes | KEY | |
|--------------|-------|-----|--------------|
| Health | 1 | | 4 = Severe |
| Flammability | 1 | | 3 = Serious |
| Reactivity | 0 | | 2 = Moderate |
| | | | 1 = Slight |
| | | | 0 = None |

SECTION 6

ACCIDENTAL RELEASE MEASURES

Small Spill: Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Large Spill: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

Glycerin

SECTION 7

HANDLING & STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Warning: sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

SECTION 8

CONTROL MEASURES

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection: Wear resistant gloves such as: natural rubber, to prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

Glycerin (56-81-5)

OHSA VPEL 5.000 mg/m³ – TWA respirable fraction

OSHA VPEL 10.000 mg/m³ – TWA total dust

ACGIH TLV 10.000 mg/m³ – TWA (total dust/particulate)

SECTION 9

PHYSICAL & CHEMICAL PROPERTIES

Odor: No data.

Specific Gravity (H₂O=1): 1.263 @ 68°F

pH: NA

% Volatiles: No data.

Boiling Point: 290.0°C (554°F) @ 760 mmHg

Vapor Density (Air = 1): 3.1

Vapor Pressure: < 1.000 mmHg @ 68°F

Evaporation Rate: Slower than Ethyl Ether

Liquid Density: 10.510 lbs/gal @ 68°F
1.263 kg/l @ 20°C

Color: Clear, APHA color 25 Max.

State: Liquid

Physical Form: Homogeneous solution

Glycerin

SECTION 10 STABILITY & REACTIVITY

Stability: Stable

Hazardous Decomposition Products: May form: acrolein, carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

Incompatibility (materials to avoid): Strong oxidizing agents.

SECTION 11 TOXICOLGICAL INFORMATION

No data.

SECTION 12 ECOLOGICAL INFORMATION

No data.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Management information: Dispose of in accordance with all applicable local, state and federal regulations.

SECTION 14 TRANSPORT INFORMATION

Domestic (Land, D.O.T.) 49 CFR 172.101

DOT Description: Non-regulated by D.O.T.

Container/Mode: 55 gal. drum/truck package

NOS Component: None

RQ (Reportable Quantity): NA

SECTION 15 REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substance Control Act) Status: TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ – 40 CFR 302.4 (a): None Listed

SARA 302 Components – 40 CFR 355 Appendix A: None

SARA 311/312 Hazard Class – 40 CFR 370.2: Immediate () Delayed () Fire () Reactive ()
Sudden Release of Pressure ()

SARA 313 Components – 40 CFR 372.65: None

Glycerin

International Regulations

Inventory Status: DSL (Canada) The intentional ingredients of this product are listed.
EINECS (Europe) The intentional ingredients of this product are listed.
TCCL (Korea) The intentional ingredients of this product are listed.

State & Local Regulations

California Proposition 65: None

Pennsylvania RTK Label Information: 1,2,3 – Propanetriol 56-81-5