Glycerine

10410

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MSDS Name:** Glycerine

**CAS number:** 112-11-0

**Chemical Name:** Glycerol; 1,2,3-Propanetriol; Glyceryl; Glycerol; Glycerin; Glycerol; Glycol; Trihydroxypropanol; Glycerol; Glycerol; Glycerol; 1,2,3-Propanetriol; Glycerol; Glycerin; Glycerol; Glycerol; Glycol; Trihydroxypropanol

**Company Identification:** Fisher Scientific

**Emergency Contact:** 1 Reagent Lane

**For information:** 201-766-7100

**For emergency assistance:** 800-424-9300

**For International emergency assistance:** 703-527-3807

**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

<table>
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<tr>
<th>Chemical Name</th>
<th>CAS#</th>
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<td>Glycerine</td>
<td>56-81-5</td>
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**EMERGENCY OVERVIEW**

Appearance: Clear

Odor: None

Health Hazard: May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None known.

Potential Health Effects:

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation. Low hazard for usual industrial handling. May cause respiratory and digestive tract irritation.

**Inhalation:**

Low hazard for usual industrial handling. Inhalation of a mist of this material may cause respiratory tract irritation.

**Ingestion:**

May cause vomiting. If conscious and alert, rinse mouth and drink 2-4 cups of milk or water. Get medical aid if irritation or symptoms occur.

**Inhalation:**

Remove exposure to fresh air immediately. Do not breathe. Get medical aid.

**Notes to Physician:**

Treat symptomatically.

**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Appearance: Clear

Odor: None

Health Hazard: May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None known.

Potential Health Effects:

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation. Low hazard for usual industrial handling. May cause respiratory and digestive tract irritation.

**Inhalation:**

Low hazard for usual industrial handling. Inhalation of a mist of this material may cause respiratory tract irritation.

**Ingestion:**

May cause vomiting. If conscious and alert, rinse mouth and drink 2-4 cups of milk or water. Get medical aid if irritation or symptoms occur.

**Inhalation:**

Remove exposure to fresh air immediately. Do not breathe. Get medical aid.

**Notes to Physician:**

Treat symptomatically.

**SECTION 4 - FIRST AID MEASURES**

**Eye:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**Skin:**

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:**

Never give anything by mouth to an unconscious person. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cups of milk or water. Get medical aid if irritation or symptoms occur.

**Inhalation:**

Remove exposure to fresh air immediately. Do not breathe. Get medical aid. If breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:**

 Treat symptomatically.

**SECTION 5 - FIRE FIGHTING MEASURES**

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand. MSR/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire, exposed containers cool. Water may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**General Information:**

Use personal protective equipment as indicated. Keep container tightly closed. Avoid contact with eyes, skin, and clothing. Keep container in a cool, dry, well-ventilated area away from incompatible substances. Special precautions indicated.

**SECTION 7 - HANDLING AND STORAGE**

**Handling:**

Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

**Storage:**

Store in a cool, dry, well-ventilated area away from incompatible substances. Special precautions indicated.

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash, facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Personal Protective Equipment:**

Wear appropriate protective eyewear or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.149 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:**

Liquid

**Color:**

Clear

**Odor:**

Not available.

**pH:**

Not available.

**Vapor Pressure:**

3.17 (25°C)

**Vapor Density:**

Not available.

**Vapor Pressure on Ice:**

Not available.

**Viscosity:**

Not available.

**Boiling Point:**

390 deg C

**Autoignition Temperature:**

40 deg C

**Flash Point:**

159 deg F

**NFPA Rating:**

3/1/0

**Explosion Limits, Lower:**

Not available.

**Explosion Limits, Upper:**

Not available.

**Decomposition Temperature:**

Miscible in water. Incl. in chloroform.

**Solubility:**

1.4746

**Specific Gravity/Density:**

1.4746
**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:**
Stable.

**Conditions to Avoid:**
Incompatible materials, ignition sources, excess heat.

**Incompatibilities with Other Materials:**
Not available.

**Hazardous Decomposition Products:**
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:**
Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**RTECS #:**
CAS# 56-81-5: MA8050000
LD50/LC50:
- Oral, mouse: LD50 = 4090 mg/kg; Oral, rabbit: LD50 = 27 gm/kg; Oral, rat: LD50 = 12600 mg/kg.
- Carcinogenicity: Glycopine not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
- Toxicity: No information available.
- Reproductive Effects: No information available.
- Neurotoxicity: No information available.
- Mutagenicity: No information available.
- Other Studies: No data available.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:**
CAS# 56-81-5:
- LC50 (96 Hr.) rainbow trout = 50-67 mg/L; 12 degrees C
- LC50 (96 Hr.) goldfish = 55000 mg/L

**Environmental Fate:**
No information available.

**Physical/Chemical:**
No information available.

**Other:**
Not available.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**RCCA P-Series:** None listed.

**RCCA U-Series:** None listed.

**SECTION 14 - TRANSPORT INFORMATION**

US DOT
No information available.

Canadian TDG
No information available.

**SECTION 15 - REGULATORY INFORMATION**

**US FEDERAL**

**TSCA:**
CAS# 56-81-5 is listed on the TSCA inventory.

**Health & Safety Reporting List:**
None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules:**
None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b:**
None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule:**
None of the chemicals in this material have a SNUR under TSCA.

**SARA**

**Section 302 (RC):**
None of the chemicals in this material have an RC.

**Section 302 (TCP):**
None of the chemicals in this product have a TCP.

**SARA Codes:**
None of the chemicals in this material have a SNUR under TSCA.

**Section 313:**
No chemicals are reportable under Section 313.

**Clean Air Act:**
This material does not contain any hazardous air pollutants.

**Clean Water Act:**
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**
None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE:**
Glycerine can be found on the following state right to know lists:
Pennsylvania, Minnesota, Massachusetts.
California: No Significant Risk Level.
None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Risk Phrases:**
WOK (Water Danger/Protection)
CAS# 56-81-5: 0

**Canada**

CAS# 56-81-5 is listed on Canada's DVL/HEDEL List.
This product does not have a WHMIS classification.
CAS# 56-81-5 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits:**
CAS# 56-81-5:
- OEL-AMERICA; TWA 10 mg/m3
- OEL-HERALD; TWA 10 mg/m3
- OEL-PRINCE; TWA 10 mg/m3
- OEL-THE MILL; TWA 10 mg/m3
- OEL-UNITED KINGDOM; TWA 10 mg/m3
- OEL IN POLANDA; COLOMBIA, JORDAN, KOREA check ACGIH TLV
- OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGIH TLV

**SECTION 10 - ADDITIONAL INFORMATION**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any kind to third parties or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if the company has been advised of the possibility of such damages.