Section 1 - Product and Company Information

Product Name: Glycerol trioleate
Product Number: T7140
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3001 Sproule Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 800-325-5832
Emergency Phone: 314-776-6555
Fax: 600-325-5652

Section 2 - Composition/Information on Ingredient

 Substance Name | CAS #  | SARA 213 | EC no | Annex I Index Number |
----------------|--------|----------|-------|----------------------|
 TRIOLEIN        | 122-32-7 | No | 204-534-7 |

Formula: C57H104O6
Synonyms:  

Section 3 - Hazards Identification

HIMS Rating
- Health: 0
- Flammability: 0
- Reactivity: 1

NFPA Rating
- Health: 0
- Flammability: 0
- Reactivity: 1

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
- If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure
- In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure
- In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Flash Point: 626 °F
Autoignition Temp: N/A
Extinguishing Media
- Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting Protective Equipment
- Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Methods for Cleaning Up
- Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
- User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
- Suitable: Keep tightly closed. Store under argon. Store at -20°C

Special Requirements
- Air and light sensitive. Store under inert gas.

Section 8 - Exposure Controls / PPE

Engineering Controls
- Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment
- Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or EN (EU). Respiratory protection is not required. Where protection is desired, use multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges.
- Hand: Protective gloves
- Eye: Chemical safety goggles.

General Hygiene Measures
- Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance
- Physical State: Clear viscous liquid
- Color: Colorless

Sigma Chemical - T7140
Page 2
Sigma-Aldrich Corporation
www.sigma-aldrich.com
<table>
<thead>
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<th>Value</th>
<th>A1 Temperature or Pressure</th>
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N/A = not available

**Section 10 - Stability and Reactivity**

**Stability**
- Stable
- Conditions of Instability: Air and light sensitive
- Conditions to Avoid: Heat, Materials to Avoid: Strong oxidizing agents

**Hazardous Decomposition Products**
- Carbon monoxide, Carbon dioxide

**Section 11 - Toxicological Information**

**Route of Exposure**
- Skin Contact: May cause skin irritation.
- Skin Absorption: May be harmful if absorbed through the skin.
- Eye Contact: May cause eye irritation.

**Inhalation**
- May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion**
- May be harmful if swallowed.

**Signs and Symptoms of Exposure**
- To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** N/A

**Section 12 - Ecological Information**
- No data available.

**Section 13 - Disposal Considerations**
- Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material.
- Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with a scrubber and scrubber.
- Observe all federal, state, and local environmental regulations.

**Section 14 - Transport Information**
- DOT
  - Proper Shipping Name: None
  - Non-Hazardous for Transport: This substance is considered to be nonhazardous for transport.

- IATA
  - Non-Hazardous for Air Transport: Non-hazardous for air transport.

**Section 15 - Regulatory Information**
- United States Regulatory Information
  - SARA Listed: No

- Canada Regulatory Information
  - WHMIS Classification
    - This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR
    - DSL: Yes
    - NDSD: No

**Section 16 - Other Information**

**Disclaimer**
- For R&D use only. Not for drug, household or other uses.

**Warranty**
- The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice packing slip for additional terms and conditions of sale. Copyright © 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.