



Section 1. Product and Company Identification

Product Name Glycerol Monostearate
CAS Number 123-94-4

Parchem - fine & specialty chemicals

415 Huguenot Street

New Rochelle, NY 10801

(914) 654-6800 **(914) 654-6899**

parchem.com **info@parchem.com**

EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

GHS Classification of the substance or mixture: Not a hazardous substance or mixture.

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 3. Composition / Information on Ingredients

Common Name Glycerol Monostearate
Synonym(s) Glyceryl Monostearate; 1-Stearoyl-rac-glycerol; 1-Monooctadecanoyl-rac-glycerol; DL- α -Stearin; rac-Glycerol 1-stearate; Monostearin
Formula $C_{21}H_{42}O_4$
CAS Number 123-94-4

Section 4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available



Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available

Section 5. Firefighting Measures

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points (Cleveland Open Cup): > 260°C (500°F)

Flammable Limits: Not available

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions

Small Fire: Use DRY chemical powder.

Large Fire: Use water spray, fog, or foam. Do not use water jet

Special Remarks on Fire Hazards: Not available

Special Remarks on Explosion Hazards: Not available

Section 6. Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. **Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available

Section 9. Physical and Chemical Properties

Physical state and appearance: Solid

Molecular Weight: 358.63 g/mol

pH (1% soln/water): Not available

Boiling Point: > 260°C (500°F)

Melting Point: 58°C (136.4°F)

Solubility: Insoluble in cold or hot water

Section 10. Stability and Reactivity

Stability: The product is stable

Instability Temperature: Not available

Conditions of Instability: Excess heat; Incompatible materials; Light

Incompatibility with various substances: Not available

Corrosivity: Not available

Special Remarks on Reactivity: Light sensitive.

Special Remarks on Corrosivity: Not available

Polymerization: Will not occur

Section 11. Toxicological Information

Routes of Entry: Inhalation; Ingestion

Toxicity to Animals: Acute oral toxicity (LD50): > 12,800 mg/kg (Rat)

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), ingestion, or inhalation. **Special Remarks on Toxicity to Animals:** Not available

Special Remarks on Chronic Effects on Humans: Not available



Special Remarks on other Toxic Effects on Humans

Acute Potential Health Effects: May cause skin, eye, respiratory tract, and gastrointestinal tract irritation

Section 12. Ecological Information

Ecotoxicity: Not available

BOD5 and COD: Not available

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic

Special Remarks on the Products of Biodegradation: Not available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT Classification: Not a DOT-controlled material (United States)

Identification: Not applicable

Special Provisions for transport: Not applicable

Section 15. Regulatory Information

Federal and State Regulations

TSCA 8(b) inventory: Glycerol Monostearate

FDA: Direct Food Additives GRAS list (21CFR 184.1324): Listed as Glycerol Monostearate

FDA: Everything Added to Food in the United States (EAFUS) list: Listed as Glycerol Monostearate

FEMA: Generally Recognized as Safe List: Listed as Glycerol Monostearate

California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 250-705-4).

Canada: Listed on Canadian Domestic Substance List (DSL).

China: Listed on National Inventory.



Japan: Not listed on National Inventory (ENCS).
Korea: Listed on National Inventory (KECI).
Philippines: Listed on National Inventory (PICCS).
Australia: Listed on AICS.

Other Classifications

WHMIS (Canada): Not controlled under WHMIS (Canada)
DSCL (EEC): This product is not classified according to the EU regulations.

HMIS Rating

Health: 1
Flammability: 1
Reactivity: 0
Personal Protection: E

NFPA Rating

Health: 1
Flammability: 1
Reactivity: 0
Special Hazards:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16. Other Information

Disclaimer: 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.

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