

Material Safety Data Sheet (MSDS)

Product Name: Glycerol Monostearate Powder

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
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1. Product Identification

- **Chemical Name:** Glycerol Monostearate
- **Synonyms:** GMS, Monostearin
- **Chemical Formula:** C₂₁H₄₂O₄
- **CAS Number:** 123-94-4
- **Recommended Use:** Emulsifier, stabilizer, thickening agent in food, cosmetics, and pharmaceutical formulations.

2. Composition / Information on Ingredients

- **Ingredient:** Glycerol Monostearate
- **Purity:** ≥ 95%
- **Hazardous Components:** None (Generally Recognized as Safe, GRAS, for intended uses)

3. Hazard Identification

- **Classification:** Not classified as hazardous according to OSHA / GHS.
- **Potential Hazards:** May cause mild irritation to eyes and skin in sensitive individuals. Inhalation of dust may cause respiratory discomfort.

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Seek medical attention for irritation.
- **Eye Contact:** Rinse thoroughly with water for 15 minutes. Consult an eye specialist if irritation occurs.
- **Ingestion:** Rinse mouth. Drink water. Seek medical attention if discomfort occurs.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Combustible dust; avoid creating dust clouds.
- **Special Protective Equipment:** Firefighters should wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation and inhalation. Wear protective gloves, mask, and goggles.
- **Environmental Precautions:** Prevent spillage into waterways.
- **Methods of Cleaning:** Sweep or vacuum carefully. Avoid generating dust. Dispose according to local regulations.

7. Handling and Storage

- **Handling:** Handle in well-ventilated areas. Avoid dust formation.
- **Storage:** Store in a cool, dry, well-ventilated place. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation, dust extraction.
- **Personal Protective Equipment:**
 - Respiratory: Dust mask if airborne concentrations exceed limits.
 - Hands: Protective gloves.
 - Eyes: Safety goggles.
 - Clothing: Protective clothing to minimize skin contact.

9. Physical and Chemical Properties

- **Appearance:** White to off-white powder
- **Odor:** Mild fatty odor
- **Melting Point:** 55–60°C
- **Solubility:** Insoluble in water; soluble in hot oils and alcohol
- **pH:** 5–7 (1% aqueous solution)
- **Flash Point:** Not applicable

10. Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Heat, moisture, sparks, open flames.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides on combustion.

11. Toxicological Information

- **Acute Toxicity:** Low toxicity; oral LD50 (rat) > 5000 mg/kg.
- **Skin and Eye Irritation:** Mild irritation possible in sensitive individuals.
- **Carcinogenicity:** Not classified as carcinogenic.
- **Chronic Effects:** No known chronic effects at normal exposure levels.

12. Ecological Information

- **Persistence and Degradability:** Biodegradable.
- **Aquatic Toxicity:** Low toxicity to aquatic organisms.
- **Bioaccumulation:** Unlikely.

13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations. Avoid release to the environment.

14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not classified as hazardous
- **Transport Hazard Class:** Not applicable
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not classified as dangerous for the environment
- **Transport Precautions:**
 - Transport in tightly closed containers to prevent contamination.
 - Avoid mechanical damage and moisture exposure during transit.
 - Ensure good ventilation in transport vehicles if large quantities are transported.
- **Special Transport Notes:** No specific transport restrictions; follow standard precautions for powdered, combustible materials.

15. Regulatory Information

- **GHS Classification:** Not hazardous
- **Labeling Requirements:** None mandatory
- **Other Regulations:** GRAS listed for food use

16. Other Information

- **References:** Manufacturer data, OECD guidelines, PubChem, ECHA
- **Disclaimer:** Information is believed to be accurate and reliable as of the revision date.
Users should verify data for their own conditions of use.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.