

Material Safety Data Sheet (MSDS)

Product Name: Glycerine Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

Product Name: Glycerine Food Grade

Chemical Name: Glycerol

CAS No.: 56-81-5

Molecular Formula: $C_3H_8O_3$

Molecular Weight: 92.09 g/mol

Recommended Use: Used as humectant, sweetener, solvent, and food additive.

2. Hazards Identification

Classification: Not classified as hazardous under GHS criteria.

Physical State: Clear, colorless, viscous liquid.

Primary Hazards: None under normal conditions of use.

Potential Health Effects:

- **Inhalation:** May cause mild irritation to respiratory tract.

- **Skin Contact:** Generally non-irritating; prolonged contact may cause mild irritation.
- **Eye Contact:** May cause temporary irritation.
- **Ingestion:** Low toxicity; large doses may cause gastrointestinal discomfort.

Signal Word: None

Hazard Pictogram: None

Precautionary Statements: Avoid contact with eyes. Use adequate ventilation.

3. Composition / Information on Ingredients

Chemical Identity: Glycerine (Glycerol)

CAS Number: 56-81-5

Content: ≥ 99.5% (Food Grade Purity)

Impurities: None significant.

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water. Seek medical advice if irritation develops.
 - **Eye Contact:** Rinse cautiously with clean water for several minutes. Remove contact lenses if present.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if large amounts are ingested.
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5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical powder, foam, or CO₂.

Unsuitable Media: None known.

Specific Hazards: May produce acrolein vapors when heated to decomposition.

Special Protective Equipment: Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Absorb with inert material (sand, earth, vermiculite).
- Avoid runoff into sewers or waterways.
- Use personal protective equipment to avoid skin or eye contact.
- Clean area thoroughly with water after material pickup.

7. Handling and Storage

Handling:

- Avoid contact with eyes.
- Use in well-ventilated areas.
- Prevent formation of vapors or mists.

Storage:

- Store in tightly closed containers.
- Keep in cool, dry, and well-ventilated area away from oxidizing agents.
- Store at temperatures between 15°C–30°C.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits (OEL):

- **Glycerine mist:** 10 mg/m³ (TWA, ACGIH)

Personal Protective Equipment:

- **Respiratory Protection:** Not required under normal conditions.
- **Skin Protection:** Protective gloves recommended for prolonged use.
- **Eye Protection:** Safety goggles recommended.
- **Hygiene Measures:** Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Appearance: Clear, colorless, viscous liquid.

Odor: Odorless.

Taste: Sweet.

Boiling Point: Approximately 290°C.
Melting Point: About 17.8°C.
Flash Point: 177°C (closed cup).
Solubility: Completely miscible with water and alcohol.
Specific Gravity: Around 1.26 at 25°C.
pH (5% solution): Between 6.5 and 7.5.
Vapor Pressure: Less than 0.0025 mmHg at 50°C.
Viscosity: High viscosity, syrupy liquid.

10. Stability and Reactivity

Stability: Stable under recommended conditions.
Incompatible Materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Acrolein (on overheating).
Polymerization: Will not occur.

11. Toxicological Information

Acute Toxicity:

- Oral LD₅₀ (rat): 12,600 mg/kg
Skin Corrosion/Irritation: Not irritating to skin.
Eye Damage/Irritation: Mild transient irritation possible.
Chronic Effects: No known carcinogenic or mutagenic effects.
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12. Ecological Information

Ecotoxicity: Non-toxic to aquatic organisms in low concentrations.
Persistence and Degradability: Readily biodegradable.
Bioaccumulative Potential: Low.
Mobility in Soil: High water solubility – mobile in soil.

13. Disposal Considerations

- Dispose of waste according to local, regional, and national regulations.

- Do not discharge into drains or natural water bodies.
- Contaminated packaging should be rinsed and recycled if possible.

14. Transport Information (Detailed)

UN Number: Not applicable – not regulated.

UN Proper Shipping Name: Glycerine, non-hazardous material.

Transport Hazard Class: Not classified as dangerous for transport.

Packing Group: Not applicable.

Label Required: None.

Detailed Transport Guidelines:

- **Road (ADR/RID):** Not restricted. Transport in clean, sealed containers to avoid contamination or leakage.
- **Sea (IMDG):** Not a marine pollutant. Ensure containers are secured against movement.
- **Air (IATA):** Not regulated as hazardous for air transport. Use leak-proof, sealed packaging.
- **Inland Waterways (ADN):** No restrictions; ensure containment to prevent spills.
- **Environmental Precautions:** Avoid release into the environment in large quantities; though non-toxic, high concentrations may increase biochemical oxygen demand (BOD).
- **Special Precautions:** Keep away from incompatible substances such as strong oxidizers. Avoid overheating during transport.
- **Emergency Response Guide (ERG):** Not applicable (non-hazardous material).

15. Regulatory Information

- **OSHA:** Not hazardous.
- **REACH:** Exempted as a naturally occurring substance.
- **FDA:** Approved for food use.
- **TSCA:** Listed.

16. Other Information

Abbreviations:

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

GHS – Globally Harmonized System

Disclaimer:

This information is based on current knowledge and is believed to be accurate at the time of publication. It is intended to describe the product in terms of health, safety, and environmental requirements only. The user must determine suitability for specific applications.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.