



## MSDS – Glycerin (Glycerol)

### 1. Product Identification

- **Product Name:** Glycerin
- **Synonyms:** Glycerol, Glycerine
- **Chemical Formula:**  $C_3H_8O_3$
- **CAS Number:** 56-81-5
- **EC Number:** 200-289-5
- **Product Type:** Humectant / Solvent
- **Recommended Uses:** Pharmaceutical, cosmetic, food, industrial

### 2. Hazard Identification

- **Classification:** Not classified as hazardous
- **Signal Word:** None
- **Hazards:**
  - Generally non-hazardous
  - Slippery when spilled
- **GHS Classification:** Not dangerous according to GHS

### 3. Composition / Information on Ingredients

Component	Content
Glycerin (Glycerol)	≥ 99%

### 4. First-Aid Measures

- **Inhalation:** Move to fresh air if discomfort occurs
- **Skin Contact:** Wash with soap and water
- **Eye Contact:** Rinse with clean water for 15 minutes
- **Ingestion:** Rinse mouth; seek medical advice if large quantity is swallowed



## 5. Fire-Fighting Measures

- **Flash Point:** > 160 °C
- **Suitable Extinguishing Media:** Water spray, foam, CO<sub>2</sub>, dry powder
- **Fire Hazards:** Combustible at high temperatures
- **Protective Equipment:** Standard fire-fighting gear

## 6. Accidental Release Measures

- Avoid slipping hazard
- Absorb with inert material (sand, earth)
- Wash area with water

## 7. Handling and Storage

- **Handling:** Use clean equipment
- **Storage:**
  - Store in tightly closed containers
  - Keep away from excessive heat
  - Hygroscopic – protect from moisture

## 8. Exposure Controls / Personal Protection

- **Eye Protection:** Safety goggles (recommended)
- **Skin Protection:** Gloves for prolonged contact
- **Respiratory Protection:** Not required under normal conditions



## 9. Physical and Chemical Properties

Property	Value
Appearance	Clear, colorless liquid
Odor	Odorless
Taste	Sweet
pH	Neutral
Density (20 °C)	~1.26 g/cm <sup>3</sup>
Boiling Point	~290 °C
Solubility	Fully soluble in water

## 10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong oxidizing agents
- **Hazardous Decomposition:** None

## 11. Toxicological Information

- **Acute Toxicity:** Low
- **Skin Irritation:** Non-irritant
- **Eye Irritation:** Mild irritation possible
- **Carcinogenicity:** Not classified

## 12. Ecological Information

- **Biodegradability:** Readily biodegradable
- **Environmental Impact:** Low



## 13. Disposal Considerations

- Dispose according to local regulations
- Non-hazardous waste

## 14. Transport Information

- **UN Number:** Not regulated
- **ADR / IMDG / IATA:** Not dangerous

## 15. Regulatory Information

- Complies with USP, BP, Ph. Eur. (grade-dependent)

## 16. Other Information

- Information provided in good faith for safe handling