

# SAFETY DATA SHEET

## 1. Identification

**Product Name:** Glycerin 99.7% USP Kosher RSPO  
**Recommended use of chemical:** Moisturizing agent for personal care and cosmetic products.  
Ingredient for emulsifier. Based ingredient for pharmaceutical application, e.g. cough syrup.  
**Name and address of the supplier:** Essential Ingredients, Inc.  
1755 North Brown Road, Suite 350  
Lawrenceville, GA, US 30043  
**Supplier's telephone number:** (770) 831-9010  
**24 Hr. Emergency telephone number:** (800) 424-9300 (CHEMTREC)

## 2. Hazard(s) Identification

### GHS Classification

Physical Hazard : Not classified as hazardous substance.  
Health Hazard : Not classified as hazardous substance.  
Environmental Hazard : Not classified as hazardous substance.

### GHS Label Element

Hazard Symbol : None  
Signal Word : None  
Hazard Statement : None  
Precautionary Statement : None

**Other Hazard** : None

## 3. Composition/Information on Ingredients

Chemical Name	Synonyms	CAS Number	EINECS Number
1,2,3-Propanetriol	Glycerine, glycerin, trihydroxypropane, 1,2,3-trihydroxypropane	56-81-5	200-289-5

**Ingredients or impurities that contribute to Hazard** : This product doesn't have impurities that contribute to the hazard classification.

## 4. First Aid Measures

**Eye Contact** : Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, prefer an ophthalmologist.

<b>Ingestion</b>	: If swallowed, seek medical attention. Do not include vomiting unless directly advised to do so by medical personnel.
<b>Inhalation</b>	: Move person to fresh air. If effects occur, consult a physician.
<b>Skin Contact</b>	: Wash skin with plenty of water.
<b>Most important symptoms/ effects, acute and delayed:</b> Not available	
<b>Indication of immediate medical attention and special treatment needed:</b> Not available	

## 5. Firefighting Measures

### Extinguishing Media:

Suitable extinguishing media	: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.
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Unsuitable extinguishing media	: Water. Do not use direct water stream. May spread fire.
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<b>Specific Hazards Arising from the Substances of Mixture</b>	: None known
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<b>Special Protective Action for Fire-Fighters</b>	: Wear positive-pressured self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.
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<b>Special Protective Equipment for Firefighters</b>	: Keep away from source of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.
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## 6. Accidental Release Measures

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	: Use gloves and a face shield.
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<b>Environmental Precautions</b>	: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
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<b>Methods and Material for Containment and Cleaning Up</b>	: Recover spilled material if possible. Contain spilled material if possible. Absorb with materials such as: Sand and other inert absorbent. Collect in suitable and properly labeled containers and remove to safe place. Flush away remainder with water. Dispose of in accordance with local, state, and federal regulation.
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## 7. Handling and Storage

<b>Precautions for Safe Handling</b>	: Avoid contact with eyes and skin. Use gloves and wear goggles when handling. Always work safely around open hatches on bulk tanks.
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<b>Conditions for Safe Storage, Including any Incompatibilities</b>	: Keep in a cool and dry place and avoid extreme heat and cold. Avoid direct fire. Keep separate from strong oxidizing agents. Keep containers tightly closed. Avoid direct sunlight. Store in clean, dry, and preferably stainless-steel vessels. In bulk, store at ambient
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temperature. For pumping, heat up to above 60°C. Temperature higher than necessary degrades quality at rate dependent on time and temperature of exposure. Exposure to ultraviolet light and sunlight must be minimized to prevent quality loss.

## 8. Exposure Controls/Personal Protection

### Control parameters:

Chemical Name	Exposure Limit	Category	Origin
Glycerol	10mg.m <sup>-3</sup>	Mist	-

**Appropriate Engineering Control** : Good general ventilation (typical 10 air changes per hour) should be used. Ventilation rate should be matched to conditions.

### Individual Protection Measures, such as Personal Protective Equipment (PPE)

**Eye/Face Protection** : Wear eye/face protection. Wear chemical protective equipment that is specifically recommended by the manufacturer.

**Skin/Hand Protection** : Wear protective gloves and suitable protective clothing.

**Respiratory Protection** : When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

**Thermal Hazard** : Not available

**Environmental Exposure Controls** : Not available

## 9. Physical and Chemical Properties

<b>Physical State</b>	: Viscous liquid	<b>Vapor Pressure</b>	: 0.26 hPa @ 100°C
<b>Color</b>	: Colorless	<b>Vapor Density</b>	: 3.2 (relative, air=1)
<b>Odor</b>	: Characteristic Odor	<b>Relative Density</b>	: 1.2515 g/cm <sup>3</sup> @ 35°C
<b>Odor Threshold</b>	: Not Available	<b>Viscosity</b>	: 1410 mPa.s at 20°C
<b>pH</b>	: 5.5 – 7.2 (50% solution)	<b>Auto-ignition Temperature</b>	: 393°C
<b>Melting/Freezing Point</b>	: 18°C / -46.5°C (66.7% glycerin solution)	<b>Solubility</b>	: Miscible with water and with ethanol
<b>Initial Boiling Point and Boiling Range</b>	: 290°C at 1013 hPa	<b>Partition Coefficient: n-octanol/water</b>	: log Kow -1.76
<b>Flash Point</b>	: 199°C (Pensky-Martens closed cup)	<b>Decomposition temperature</b>	: Not available
<b>Evaporation Rate</b>	: Not Applicable	<b>Explosive Properties</b>	: Not applicable
<b>Flammability (solid, gas)</b>	: Not Available	<b>Oxidizing Properties</b>	: Not Applicable
<b>Upper/Lower Flammability or Explosive Limits</b>	: Not Available		
<b>Other Information</b>	: No relevant additional information available		

## 10. Stability and Reactivity

**Reactivity** : Avoid contact with oxidizing agents (example: peroxides, chromates and nitric acid).

<b>Chemical Stability</b>	: Stable under recommended storage conditions. Hygroscopic.
<b>Possibility of Hazardous Reactions</b>	: Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	: Avoid temperatures exceeding the flash point. Exposure to elevated temperatures can cause product to decompose. Avoid moisture.
<b>Incompatible Materials</b>	: Avoid contact with oxidizing agents (example: peroxides, chromates and nitric acid)
<b>Hazardous Decomposition Products</b>	: None known.

### 11. Toxicological Information

<b>Acute toxicity</b>	: Acute oral toxicity LD <sub>50</sub> : Rat: range from >5000 to 58400 mg/kg bw
<b>Skin Corrosion / Irritation</b>	: Not available
<b>Eye Corrosion / Irritation</b>	: Not available
<b>Respiratory or Skin Sensitization</b>	: Not available
<b>Mutagenicity</b>	: No data that indicates glycerine to have a genotoxic potential
<b>Carcinogenicity</b>	: Not available
<b>Reproductive toxicity</b>	: Contains no ingredient listed as toxic to reproduction
<b>STOT (single exposure)</b>	: Not available
<b>STOT (repeated exposure)</b>	: Not available
<b>Aspiration Hazard</b>	: Not available

### 12. Ecological Information

<b>Ecotoxicity</b>	: Acute aquatic hazard. 96hr LC <sub>50</sub> (for fish): 184,000 mg/L (ECOSAR-QSAR)
<b>Persistence and degradability</b>	: Readily biodegradable
<b>Bioaccumulation potential</b>	: Not bioaccumulate
<b>Mobility in soil</b>	: Miscible in water
<b>Results of PBT and vPvB assessment</b>	: Not a PBT or vPvB substance
<b>Other adverse effects</b>	: Not available

### 13. Disposal Considerations

<b>Disposal Methods</b>	: Disposal method is in accordance with all applicable national environmental laws and regulations.
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### 14. Transportation Information

This material is not classified as dangerous goods for DOT, ADR/RID, ADN, IMDG, or IATA

#### Transport in Bulk (Annex II of MARPOL 73/78 and the IBC Code)

Product Name	: Glycerine
Ship Type	: None
Pollution Category	: Z

## 15. Regulatory Information

### Inventory Status

AICS (Australia)	: Listed
DSL (Canada)	: Listed
ECL (Korea)	: Yes (KE-29297)
EINECS (EU)	: Yes (EC No.: 200-289-5)
ENCS (Japan)	: Yes (MITI No.: 2-242)
IECSC (China)	: Listed
NDSL (Canada)	: No
NZIoC (New Zealand)	: Listed
PCCS (Philippines)	: Listed
TSCA (USA)	: Listed

**Chemical safety assessment** : No information available

## 16. Other Information

### Legend:

AICS: Australian Inventory of Chemical Substances	IECSC: Inventory of Existing Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)	IMDG: International Maritime Dangerous Goods
DOT: Department of Transportation	KECL: Korean Existing Chemicals List
DSL: Domestic Substances List, The Canadian Chemical Inventory	LC: Lethal Concentration
EC50: Effective Concentration 50%	LD: Lethal Dose
EINECS: European Inventory of Existing Commercial chemical Substances	NZIoC: New Zealand Inventory of Chemicals
ENCS: Existing and New Chemical Substances	STOT: Specific Target Organ Toxicity
EPA: Environmental Protection Agency	TSCA: Toxic Substance Control Act
IBC: Intermediate Bulk Container	

### Disclaimer:

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