



# SAFETY DATA SHEET

Revision Date **15-Mar-2012**

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** GLYCEROL, ULTRA PURE

**Recommended Use** For research use only  
**Registration Number** No information available

### 1.1 Product Identifier

**Catalog Number:** 800688

**Supplier:** MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

### GHS Label elements, including precautionary statements

**Physical Hazards** None

**Not Hazardous** Not classified

**NFPA rating:**  
NFPA Health: 0  
NFPA Flammability: 1  
NFPA Reactivity: 0  
NFPA Special Note: -

### Precautionary Statements

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Synonyms:** Glycerin; Glycerine; 1,2,3-Propanetriol; Glyceritol; Glycyl alcohol; Grocolene; Osmoglyn; Trihydroxypropane; 1,2,3-Trihydroxypropane  
**Formula:** C3-H8-O3  
**Molecular weight:** 92.09

Chemical Name	EC No.	CAS Number	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
GLYCEROL	EEC No. 200-289-5	56-81-5	100	Xi		No data available

For the full text of the R phrases and H statements mentioned in this section, see Section 2

## 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Do not rub affected area. Get medical attention immediately if irritation persists.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air in case of accidental inhalation of vapors. Immediate medical attention is required. Toxic by inhalation

**Rinse mouth** Clean mouth with water and afterwards drink plenty of water.

### 4.2 Most important symptoms and effects, both acute and delayed

**Main Symptoms** No information available

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Extinguishing media which must not be used for safety reasons**

No information available

### 5.2 Special hazards arising from the substance or mixture

No information available.

### 5.3 Advice for firefighters

Use personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Pay attention to flashback.

See Section 12 for additional information.

## **6.2 Environmental precautions**

Refer to protective measures listed in Sections 7 and 8.

## **6.3 Methods and materials for containment and cleaning up**

No information available.

## **6.4 Reference to other sections**

See Section 12 for additional information

# **7. HANDLING AND STORAGE**

## **Storage**

ROOM TEMPERATURE

### **7.1 Precautions for safe handling**

Ensure adequate ventilation.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a cool, well-ventilated place

### **7.3 Specific end uses**

#### **Exposure Scenario**

No information available

#### **Other Guidelines**

No information available

# **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **8.1 Control parameters**

### **Exposure Limits**

<b>Chemical Name</b>	<b>European Union</b>	<b>The United Kindom</b>	<b>France</b>	<b>Spain</b>	<b>Germany</b>
GLYCEROL		TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	50 mg/m <sup>3</sup>

<b>Chemical Name</b>	<b>Italy</b>	<b>Portugal</b>	<b>The Netherlands</b>	<b>Finland</b>	<b>Denmark</b>
GLYCEROL	10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> VLE- MP		TWA: 20 mg/m <sup>3</sup>	

<b>Chemical Name</b>	<b>Austria</b>	<b>Switzerland</b>	<b>Poland</b>	<b>Norway</b>	<b>Ireland</b>
GLYCEROL		TWA: 50 mg/m <sup>3</sup> STEL: 100 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> NDS		TWA: 10 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

## **8.2 Exposure controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye Protection** Tightly fitting safety goggles

**Skin and Body Protection** Long sleeved clothing

**Hand Protection** Protective gloves

**Respiratory Protection** No special protective equipment required.

**Other Protective Equipment** Impervious clothing.

**Environmental Exposure Controls** No information available.

**Hygiene Measures** Provide regular cleaning of equipment, work area and clothing..

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance**

**Physical State** Liquid.  
**Appearance and Odor:** Clear and colorless, syrupy; odorless.

**Physical Property Data**

**pH Value** 5  
**Flash Point** 199°C/390°F  
**Autoignition Temperature** 392.78°C/739°F  
**Melting/Freezing Point** 18°C/64°F  
**Boiling Point (°C)** 290°C/554°F  
**Vapor Pressure** 0.0033 hPa @ 50°C  
**Vapor Density** 3.17  
**Water Solubility** miscible  
**Evaporation Rate** No data available.  
**Flammability (solid, gas)** No data available  
**Flammability Limits in Air**  
    **upper flammability limit** No data available  
    **lower flammability limit** No data available  
**Density** 1.262  
**Specific Gravity** No data available.  
**Decomposition Temperature** No data available  
**Viscosity, Kinematic** No data available.  
**Viscosity, Dynamic** No data available.  
**Explosive Properties** No information available.  
**Oxidizing Properties** No information available  
**VOC Content (%)** No information available

### 9.2 Other Safety Information

Other Safety Information

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3

#### Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

None in particular

### 10.5 Incompatible Materials

None in particular

### 10.6 Hazardous Decomposition Products

None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute Toxicity</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>Inhalation</b>	No information available.
<b>Eye Irritation</b>	No information available.
<b>Acute toxicity</b>	0% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
GLYCEROL 56-81-5	12600 mg/kg ( Rat )	21900 mg/kg (Rat)	

<b>Mutagenic Effects</b>	Contains no ingredient listed as a mutagen.
<b>Carcinogenic Effects</b>	None known.
<b>Reproductive Toxicity</b>	None known
<b>Developmental Toxicity</b>	None known.
<b>Target Organ Effects</b>	Respiratory system. Skin. Eyes. Kidney.
<b>Aspiration hazard</b>	None known

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical Name	Ecotoxicity - Freshwater Algae - Acute Toxicity Data	Ecotoxicity - Freshwater Fish - Acute Toxicity Data	Ecotoxicity - Water Flea - Acute Toxicity Data
GLYCEROL 56-81-5		LC50 (96 h) 51 - 57mL/L (Oncorhynchus mykiss) static	>500 mg/L EC50 (24 h) Daphnia magna

### 12.2 Persistence and degradability

No data is available on the product itself

### **12.3 Bioaccumulative potential**

No information available

<b>Chemical Name</b>	<b>Log Pow</b>
GLYCEROL 56-81-5	-1.76

### **12.4 Mobility in soil**

No information available

### **12.5 Results of PBT and vPvB assessment**

No information available.

### **12.6 Other adverse effects**

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

## **13. DISPOSAL CONSIDERATIONS**

**Waste from Residues/Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **14. TRANSPORT INFORMATION**

**IMDG/IMO** Not regulated

**ICAO** Not regulated

**ICAO/IATA** Not regulated

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

## **15. REGULATORY INFORMATION**

### **International Inventories**

<b>Chemical Name</b>	<b>TSCA</b>	<b>EINECS / ELINCS</b>	<b>DSL / NDSL</b>	<b>PICCS</b>	<b>ENCS</b>	<b>IECSC</b>	<b>AICS</b>	<b>KECL</b>
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## 15. REGULATORY INFORMATION

GLYCEROL	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
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### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippine Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

## 16. OTHER INFORMATION

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet

Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)