SAFETY DATA SHEET

Revision Date *20-Mar-2012*

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

Product Name GLYCEROL, SPECTRO GRADE

Recommended Use For research use only
Registration Number No information available

1.1 Product Identifier

Catalog Number: 300107

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

Risk Combination Phrases

R36/37/38 - Irritating to eyes, respiratory system and skin.

S-phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S25 - Avoid contact with eyes.
S20 - When using do not eat or drink.

Safety Combination Phrases:
S37/39 - Wear suitable gloves and eye/face protection.

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

STORE UNDER NITROGEN

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

Chemical Name	European Union	The United Kindom	France	Spain	Germany
GLYCEROL		TWA: 10 mg/m^3 STEL: 30 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3	

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

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
GLYCEROL	10	TWA: 50 mg/m^3 STEL: 100 mg/m^3	TWA: 10 mg/m^3 NDS		TWA: 10 mg/m^3

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

Acute Toxicity Product does not present an acute toxicity hazard based on known or supplied information

Inhalation No information available.

Eye Irritation No information available.

Acute toxicity 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)	

Mutagenic Effects Contains no ingredient listed as a mutagen.

Carcinogenic Effects None known.

Reproductive Toxicity None known

Developmental Toxicity None known.

Target Organ Effects Respiratory system. Skin. Eyes. Kidney.

Aspiration hazard 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	EC50>500mg/L24h

12.2 Persistence and degradability

No data is available on the product itself

12.3 Bioaccumulative potential

No information available

Chemical Name	Log Pow
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

14. TRANSPORT INFORMATION

MEX Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	EINECS / ELINCS	DSL / NDSL	PICCS	ENCS	IECSC	AICS	KECL
GLYCEROL	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

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/NDSL - 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 Subtances
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 literarure references and sources for data
www.ChemADVISOR.com/