

Glycerin

Safety Data Sheet According to Regulation (EC) 1272/2008

SECTION 1 - Chemical Product and Company Identification					
1.1 Product Identifiers					
Product Name: CAS #:	: Glycerin : 56-81-5				
EC #:					
RTECS #:	: MA8050000				
REACH Registration Nur					
	the Chemical and Restrictions of Use				
Chemical Manufacturing					
1.3 Supplier Details					
Supplier:BioSpectra, Inc. 100 Majestic Way Bangor, PA 18013 T: 610.599.3400 ra@biospecta.us					
1.4 Emergency Numbers					
Emergency number:US & Canada: 1-800-424-9300 Outside the US & Canada: +1 703-527-3887					
SECTION 2 – Hazard I	entification				
2.1 Classification of Subs	ance or Mixture				
GHS Classification in acc	dance with 29 CFR 1910 (OSHA HCS)				
Not a hazardous substance	or mixture according to Globally Harmonized S	System (GHS) and Regulation (EC) No 1272/2008.			
2.2 GHS Label Elements	ncluding Precautionary Statements				
Not a hazardous substance	or mixture.				
2.3 Hazards not Classified or not Covered by the GHS					
None					
SECTION 3 – Composition, Information on Ingredients					
Compone	Component Classification Concentration				
Glyceri	Not a hazardous substance	ce or mixture <=100%			
Synonyms	Synonyms : 1,2,3-Propanetriol, Glycerol				
EC Number					
CAS Number	CAS Number : 56-81-5				
Molecular Formula: $C_3H_8O_3$ Molecular Weight:92.09 g/mol					
SECTION 4 – First Aid Measures					
4.1 Description of Necess	ry First Aid Measures				

Eyes

: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Remove Contact Lenses. Seek medical attention if needed.

Skin	:	Take off contaminated clothing immediately. Rinse contaminated area with plenty of water for at least 15 minutes. Seek medical attention if needed.
Ingestion	:	Immediately drink plenty of water. DO NOT induce vomiting unless instructed to do so by a medical professional. Never give anything by mouth to an unconscious person. Seek medical attention if needed.
Inhalation	:	Remove from exposure to fresh air immediately. Seek medical attention if needed.
Notes to Physician	:	Treat symptomatically and supportively.

4.2 Most Important Symptoms/Effects, Acute and Delayed

Refer to Section 11 for additional Toxicological information

4.3 Indication of Immediate Medical Attention and Special Treatment

Treat symptomatically

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

Water Foam, Carbon Dioxide (CO₂), Dry Powder

5.2 Specific Hazards Associated with this Chemical

Carbon Oxides,

Combustible

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of a fire.

5.3 Special Equipment/Precautions for Firefighters

In the event of fire, wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

5.4 Other Information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Do not breath vapors, aerosols. Evacuate the danger area, observe emergency procedures and consult an expert. Use proper personal protective equipment as indicated in Section 8.

6.2 Environmental Precautions

Do let product to enter drains

6.3 Methods and Materials for Containment and Cleaning Up

Cover drains. Collect, bind and pump off spills. Observe possible material restrictions (see sections 7 and 10). Clean up spills immediately, observing precautions in the Protective Equipment section. Take up or absorb material, then place into a suitable clean, dry, closed container for disposal.

6.4 Other Information

For disposal instructions see section 13.

SECTION 7 - Handling and Storage

7.1 Precautions for Safe Handling

For precautions see section 2.2

7.2 Conditions for Storage Including any Incompatibilities

Keep container tightly closed. Hygroscopic

7.3 Other Information

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

Ingredients with workplace control parameters.

8.2 Engineering Controls

Change contaminated clothing. Wash hands after working with substance.

8.3 Personal Protective Equipment

Eyes

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin

Wear appropriate protective gloves to prevent skin exposure. Wear impervious gloves: Nitrile rubber with layer thickness 0.11mm.

Clothing

Wear appropriate impervious protective clothing to prevent skin exposure.

Respirators

Follow the OSHA respirator regulations found in 29 CFR OSHA 1910.134, European Standard DIN EN 149, DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environment exposure

Do not let product enter drains

SECTION 9 - Physical and Chemical Properties

Physical State Appearance Odor	:	Liquid Clear, Viscous Odorless
рН	:	5.5-8
Vapor Density	:	3.18 (Air = 1.0)
Vapor Pressure	:	0.26 hPa at 100 °C (212 °F)
		5.7 hPa at 150 °C (302 °F)
Viscosity	:	No Data available
Melting Range	:	20 °C / 68°F
Flash Point	:	199°C / 390°F
Boiling Point	:	182°C / 360°F
Decomposition Temperature	:	No Data available
Autoignition Temperature	:	370°C / 698°F
Specific Gravity/Density	:	1.261 g/mol
Solubility	:	Miscible with water
Molecular Formula	:	$C_3H_8O_3$

DCN: BSI-SDS-0051, Revision: 1.0, Effective Date: 03 Oct 2023 3:06 PM, Date of Next Review: 03 Oct 2026 3:06 PM

Molecular Weight

: 92.09 g/mol

SECTION 10 - Stability and F	Reactivity
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10.1 Chemical Stability

Stable under standard ambient conditions (room temperature).

10.2 Conditions to Avoid

Incompatible products. Excess heat.

10.3 Incompatibilities with Other Materials

Strong oxidizing agents

10.4 Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. In the event of a fire refer to section 5

10.5 Hazardous Polymerization

Hazardous polymerization may occur.

SECTION 11 - Toxicological Info	rmation
11.1 Toxicological Effects	
LD50/LC50 Oral, rat LD50/LC50 Dermal, rabbit LD50/LC50 Inhalation, rat Carcinogenicity Epidemiology Teratogenicity Reproductive Effects Neurotoxicity Mutagenicity Other Studies	 LD50 = 12,600 mg/kg LD50 = > 10,000 mg/kg LC50 = > 570mg/m³ (1h) CAS# 56-81-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA No data available
11.2 Additional Information	

11.2 Additional Information

RTECS#

: MA8050000

Tumorigenic effects have been reported in experimental animals. See actual RTECS for complete information. To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.

SECTION 12 - Ecological Information			
12.1 Ecotoxicity			
Toxicity to D	aphnia an	nd Other Aquatic Invertebrates	
LC50 – Oncorhynchus mykiss (Rainbow Trout)		51mg/l – 96h	
LC50 - Freshwater Fish		51-57 mL/L 96H	
EC50 – Daphnia Magna/Water Flea		500 mg/L > 24H	
12.2 Persistence and Degradability			
Biodegradability Result :		- Exposure time 2d	
Method Result: 9 : ECHA		0% - Readily biodegradable	
12.3 Bioaccumulative Potential			
No data available			
12.4 Mobility in Soil			
	(CD'	eSector. The regiminant is regressible for its gefs begains and the requestion of	

No data available

12.5 Results of PBT and vPvB Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT).

12.6 Other Adverse Effects

No data available

SECTION 13 - Disposal Considerations

Waste material must be disposed of in accordance with the national and Ioc. No mixing with other waste. Handle uncleaned containers like the product. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14 - Transport Information

Regulations	US DOT	IATA	IMDG	Further information
Shipping Name Hazard Class UN Number Packing Group	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods	Not classified as dangerous in the meaning of transport regulations

SECTION 15 - Regulatory Information	
15.1 EHS Chemical Specific Regulations	
SARA: Section 302 Section 313	 This material does not contain any components with a section 302 EHS TPQ This material does not contain any chemical components with known CAS
SARA 311/312 Hazards	 numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. Chronic Health Hazard

STATE SPECIFIC:

State Right to Know Regulations	: This produc	et may contain substances regu	lated by state to know regulations.
Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,2,3-Propanetriol 56-81-5	Х	Х	Х

SECTION 16 - Additional Information

16.1 Hazard Ratings

NFPA Rating		
Health hazard	0	
Fire Hazard	1	
Reactivity Hazard	0	

HMIS Classification		
Health hazard	0	
Flammability	1	
Physical Hazards	0	

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