Glycerol

Section 1

CAROLINA® www.carolina.com

Product Description

Product Name:	Glycerol
Recommended Use: Synonyms:	Science education applications Glycerin, Glycerine, Trihydroxypropane
Distributor:	Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215
	1-800-227-1150
Chemical Information:	800-227-1150 (8am-5pm (ET) M-F)
Chemtrec:	800-424-9300 (Transportation Spill Response 24 hours)

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Section 2

Causes eye irritation.

GHS Classification: Serious Eye Damage/Eye Irritation Category 2B, Skin Corrosion/Irritation Category 3

<u>Chemical Name</u> Glycerol		<u>CAS #</u> 56-81-5	<u>%</u> 10		
Section 4	Fi	rst Aid Measures	8		
Emergency and First Aid Pro	cedures				
	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy				
				if present and eas	
Eyes: IF II		ater for several minutes. Re	move contact lenses,	if present and eas	
Eyes: IF II to d	EYES: Rinse cautiously with wa	ater for several minutes. Rei n persists: Get medical adv	move contact lenses, ice/attention.		
Eyes: IF II to d Ingestion: If sv	EYES: Rinse cautiously with wa b. Continue rinsing. If eye irritation allowed, do not induce vomiting:	ater for several minutes. Rean persists: Get medical adv seek medical advice immedical advice immedical advice immedical advice immedical advice immediates and the second s	move contact lenses, ice/attention. diately and show this		
Eyes: IF II to d	EYES: Rinse cautiously with wa b. Continue rinsing. If eye irritation allowed, do not induce vomiting:	ater for several minutes. Rei n persists: Get medical adv	move contact lenses, ice/attention. diately and show this		
Eyes: IF II to d Ingestion: If sv Section 5	EYES: Rinse cautiously with wa b. Continue rinsing. If eye irritation allowed, do not induce vomiting: Firef	ater for several minutes. Rei n persists: Get medical adv seek medical advice immer ighting Procedu	move contact lenses, ice/attention. diately and show this		
Eyes: IF II to d Ingestion: If sv Section 5 Extinguishing Media:	EYES: Rinse cautiously with wa b. Continue rinsing. If eye irritation allowed, do not induce vomiting: Firef Use dry chemical, C	ater for several minutes. Rei n persists: Get medical advise seek medical advice immer ighting Procedu	move contact lenses, ice/attention. diately and show this	container or label.	
Eyes: IF II to d Ingestion: If sv Section 5	EYES: Rinse cautiously with wa b. Continue rinsing. If eye irritation allowed, do not induce vomiting: Firef Use dry chemical, C Fotection: Firefighters should	ater for several minutes. Rei n persists: Get medical advise seek medical advice immer ighting Procedu CO2 or appropriate foam. wear full protective equipm	move contact lenses, ice/attention. diately and show this	container or label.	
Eyes: IF II to d Ingestion: If sv Section 5 Extinguishing Media:	EYES: Rinse cautiously with wa b. Continue rinsing. If eye irritation allowed, do not induce vomiting: Firef Use dry chemical, C Firefighters should breathing apparatus	ater for several minutes. Rei n persists: Get medical advise seek medical advice immer ighting Procedu CO2 or appropriate foam. wear full protective equipm	move contact lenses, ice/attention. diately and show this res ent and NIOSH appro	container or label.	

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Glycerol

Section 7

Handling and Storage

Wash thoroughly after handling. Keep container tightly closed in a cool, well-ventilated place. Keep away from ... Handling: (incompatible materials to be indicated by the manufacturer). Storage: Keep container tightly closed in a cool, well-ventilated place. Storage Code: Green - general chemical storage

Section 8

Protection Information

	ACGIH		<u>OSHA I</u>	PEL
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Glycerol	10 mg/m3	N/A	15 mg/m3 TWA	N/A
			(mist, total	
			particulate); 5	
			mg/m3 TWA (mist,	
			respirable fraction)	
Control Parameters				
Engineering Measures:	No exposure limits exist	for the constituent	s of this product. General ro	oom ventilation
0	might be required to main	ntain operator com	nfort under normal condition	is of use.
Personal Protective Equipment (PPE):	Lab coat, apron, eye was	sh, safety shower.		
Respiratory Protection:	No respiratory protection	required under no	ormal conditions of use.	
Eye Protection:	Wear chemical splash go	oggles when handl	ing this product. Have an e	ye wash station
	available.			
Skin Protection:			esistant gloves, an apron ar	
			se. Inspect gloves for chem	•
	and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving			
	•	n mild soap and wa	ater before eating, drinking,	and when leaving
01	work.			
Gloves:	Nitrile			
Section 9	Physical	Data		
	- Inysica	Dalla		

nysical Data

Vapor Pressure: 0.0025 mmHg at 50 °C Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): 3.17 Specific Gravity: 1.262 at 20 °C Solubility in Water: Soluble Log Pow (calculated): -1.76 Autoignition Temperature: No data available 392.78 C Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 0

Section 10

pH: 5.5 - 8

Formula: C3H5(OH)3

Molecular Weight: 92.09

Odor: No data available

Melting Point: 18 C

Boiling Point: 290 C

Appearance: Colorless, Oily Liquid

Odor Threshold: No data available

Flash Point: No data available 179 C

Flammable Limits in Air: N/A

Reactivity: **Chemical Stability:** Conditions to Avoid: **Incompatible Materials:** Hazardous Polymerization: No data available Stable under normal conditions. None known. Strong oxidizing agents, Caustics (bases) Will not occur

Section 11

Toxicity Data

Reactivity Data

Routes of Entry Symptoms (Acute): **Delayed Effects:**

Inhalation, ingestion, eye or skin contact. Eye disorders, Liver disorders, Impaired Kidney Function No data available

Acute Toxicity: Chemical Name Glycerol	Ę	CAS Number 56-81-5	Oral LD5 Oral LD50 Mo 4090 mg/kg			Inhalation LC50 lot determined
Carcinogenicity: Chemical Name No data available	Ę	CAS Number 56-81-5	IARC Not listed	N Not listed	TP	OSHA lot listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA., Mutation data cited., Reproductive data cited.					
Section 12		3	cological D	Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. No data No data No data No data No data					
Chemical Name Glycerol		CAS Number 56-81-5	Eco Toxicity 24 HR EC50 DAF	Phnia Magna >	500 MG/L	
Section 13		Disp	oosal Inforr	nation		
Disposal Methods: Waste Disposal Code(s	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined					
Section 14		Tran	sport Infor	mation		
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:Not dangerous goodsNot dangerous goods						
Section 15	on 15 Regulatory Information					
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Nam	ie § 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	56-81-5	No	No	No	No	No
Section 16	Additional Information					

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health