Ethylene Glycol

CAROLINA®

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

Ethylene Glycol Science education applications 1.2-Ethandiol; Ethylene Alcohol; Glycol Alcohol Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

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

WARNING



Harmful if swallowed.

GHS Classification: Acute Toxicity - Oral Category 4

Section 3

Composition / Information on Ingredients

Chemical Name Ethylene Glycol 100%

107-21-1

CAS #

<u>%</u> 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	After contact with skin, wash immediately with plenty of water.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5

Firefighting Procedures

Extinguishing Media:Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or
foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent
if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot
burning liquid.Fire Fighting Methods and Protection:Firefighters should wear full protective equipment and NIOSH approved self-contained
breathing apparatus.Fire and/or Explosion Hazards:In use, may form flammable/explosive vapor-air mixture. Contact with water liberates
extremely flammable gases.Hazardous Combustion Products:Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be severely irritating or toxic. Follow p equipment recommendations found in Section 8 of this SDS. Personal pro- needs must be evaluated based on information provided on this sheet and circumstances created by the spill including; the material spilled, the quant area in which the spill occurred, and the expertise of employees in the area spill. Never exceed any occupational exposure limits. Ventilate the contant Isolate area. Keep unnecessary personnel away. Avoid breathing dust/fume/gas/mist/vapors/spray. Prevent the spread of any spill to minimize harm to human health and the to do so. Wear complete and proper personal protective equipment followin recommendation of Section 8 at a minimum. Dike with suitable absorbent of granulated clay. Gather and store in a sealed container pending a waste of Absorb spill with inert material (e.g., dry sand or earth), then place in a che container Avoid runoff into storm sewers and ditches that lead to waterway	tective equipment the special ity of the spill, the a responding to the ninated area. environment if safe ng the material like isposal evaluation. emical waste
Section 7	Handling and Storage	

Handling: Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep away from ... (incompatible materials to be indicated by the manufacturer). Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Harmful if swallowed. Retained residue may make empty containers hazardous

Storage:Keep container tightly closed in a cool, well-ventilated place.Storage Code:Green - general chemical storage

Section 8	Protection Information				
	ACG	ЯН	OSHA	PEL	
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)	
No data available	N/A	N/A	N/A	N/A	
Control Parameters					
	Loool oxhouet ventileti	on or other ongineering	econtrolo oro pormally r	oquired when	
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye w		posule.		
Respiratory Protection:			al conditions of use. R	espiratory	
Respiratory Protection.					
	protection not normally needed since volatility and toxicity are low. If vapors, mists or aerosols are generated, wear a NIOSH approved respirator.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station				
	available.		,	- ,	
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective				
	equipment depending upon conditions of use. Inspect gloves for chemical break-through				
	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				
	work. Wash hands and other exposed areas with mild soap and water before eating,				
	drinking, and when leaving work. Where use can result in skin contact, practice good				
	personal hygiene. Inspect gloves for chemical break-through and replace at regular				
	intervals. Clean protect	ive equipment regulari	у.		
Gloves:	Nitrile				
Cootion 0	Dhusia				

Section 9

- **Physical Data**
- Formula: CH2OHCH2OH Molecular Weight: 62.07 Appearance: Colorless Liquid Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available -12 C Boiling Point: 196 - 198 C Flash Point: 111 C Flammable Limits in Air: LEL: 3.2% 0.1 hPa at 20 °C

Vapor Pressure: 0.1 hPa at 20 °C Evaporation Rate (BuAc=1): < 1 Vapor Density (Air=1): 2.14 Specific Gravity: 1.113 at 20 °C Solubility in Water: Soluble Log Pow (calculated): -1.93 Autoignition Temperature: 398 C Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 100%

Section 10

Reactivity Data

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

Section 11

Toxicity Data

			ity Data		
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation and inge N/A No data available	estion.			
Acute Toxicity: Chemical Name Ethylene Glycol 100%		CAS Number 107-21-1	Oral LD50 Oral LD50 Rat = 4700 mg/kg	Dermal LD50 Dermal LD50 Rabbit = 10626 C	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name No data available		CAS Number 107-21-1	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a s No evidence of neg See Section 2	eratogenic effect (bir ensitization effect. gative reproductive e		a carcinogen by IARC,	NTP or OSHA.
Section 12		=	cological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	wildlife. Ke No data No data No data No data	ogical hazard. In hig ep out of waterways	h concentrations, this pr	oduct may be dangero	us to plants and/or
Chemical Name Ethylene Glycol 100%		CAS Number 107-21-1	Eco Toxicity 96 HR LC50 ONCORH 96 HR LC50 LEPOMIS 96 HR LC50 ONCORH 96 HR LC50 POECILIA 48 HR EC50 DAPHNIA 96 HR EC50 PSEUDO 13000 MG/L	MACROCHIRUS 275 IYNCHUS MYKISS 407 A RETICULATA 16000 A MAGNA 46300 MG/L	40 MG/L [STATIC] 761 MG/L [STATIC] MG/L [STATIC]
Section 13		Dis	oosal Informat	ion	
Disposal Methods: Waste Disposal Code(CO	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 Informat	tion	

Ground - DOT Proper Shipping Name:

Air - IATA Proper Shipping Name:

UN number: 3082 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol) Reportable Quantity (RQ): 5000 lbs Marine pollutant: No Poison Inhalation Hazard: No Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethylene Glycol 100%	107-21-1	Ethylene glycol	No	5000 lb final RQ; 2270 kg final RQ	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	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	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