Carosafe®



Section 1

Product Description

Product Name: Carosafe®

Recommended Use: Science education applications

Synonyms: None

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)

Section 2

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

Other Safety Precautions: May cause irritation.

> May cause gastrointestinal discomfort. May cause irritation to respiratory tract.

May cause irritation to skin.

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Vapor

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name 2-amino-2-ethyl-1,3-propanediol (CAS# 115-70-8)

Ethylene Glycol Phenyl Ether (CAS# 122-99-6)

Propylene Glycol(CAS# 57-55-6)

CAS# See Section 3 <u>%</u> 0

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

Use dry chemical, CO2 or appropriate foam. **Extinguishing Media:**

Carosafe® Page 1 of 4

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away.

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. Contain the discharged material. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Do not flush spill to drain.

Section 7

Handling and Storage

Handling: Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid contact with skin and

eyes. Avoid contact with clothing. Keep container tightly closed in a cool, well-ventilated place. Keep at

temperature not exceeding ... OC (to be specified by the manufacturer). Do not breathe gas/fumes/vapor/spray.

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8

Protection Information

	ACC	<u>SIH</u>	<u>OSHA PEL</u>	
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
Propylene Glycol	N/A	N/A	N/A	N/A
2-Amino-2-Ethyl-1,3-Propanediol	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

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. Use impervious gloves. Inspect gloves for chemical break-through and

replace at regular intervals. Clean protective equipment regularly.

Natural rubber, Neoprene, PVC or equivalent.

Physical Data

Gloves:

Section 9

ubber, Neoprene, F vC or equivalent.

Formula: See Section 3 Molecular Weight: N/A Appearance: Liquid

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting Point: No data available Boiling Point: No data available

Flash Point: 99 C

Flammable Limits in Air: (Propylene Glycol) LEL: 2.6% UEL:

12.6%

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: >1 Solubility in Water: Soluble

Log Pow (calculated): 1.13 at 25 °C

Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures.

Incompatible Materials: Caustics (bases), Metals, Strong oxidizing agents

Hazardous Decomposition Products: Nitrogen oxides, Carbon oxides

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Propylene Glycol Oral LD50 Dog Dermal LD50 22000 mg/kg Rabbit 20800

mg/kg

Ethylene glycol phenyl ether Oral LD50 Rat Dermal LD50 Rat 1260 mg/kg 14422 mg/kg

2-Amino-2-Ethyl-1,3-Propanediol

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAPropylene GlycolNot listedNot listedNot listed2-Amino-2-Ethyl-1,3-PropanediolNot listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12

Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife. Keep out of waterways.

Mobility: No data

Persistence: Biodegradation Bioaccumulation: No data

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Propylene Glycol 96 HR LC50 PIMEPHALES PROMELAS 710 MG/L

 $96~\rm{HR}$ LC50 PIMEPHALES PROMELAS 51400 MG/L [STATIC] $96~\rm{HR}$ LC50 ONCORHYNCHUS MYKISS 51600 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA > 1000 MG/L [STATIC]

24 HR EC50 DAPHNIA MAGNA > 10000 MG/L

96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 19000

MG/L

Ethylene glycol phenyl ether 96 HR LC50 PIMEPHALES PROMELAS 366 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA > 500 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 500 MG/L

Carosafe® Page 3 of 4

2-Amino-2-Ethyl-1,3-Propanediol

Not available

Disposal Information Section 13

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA. N/A

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name **CERCLA RQ** § 302 TPQ **CAA 112(2)** § 304 RQ Number TQ Propylene Glycol No No No No No 2-Amino-2-Ethyl-1,3-Propanediol No No No No No

California Prop 65: WARNING: This product contains a chemical known to the state of California

to cause cancer.

Additional Information Section 16

Revised: 05/29/2014 Replaces: None Printed: 06-12-2014

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

Carosafe® Page 4 of 4