

SPECIMENS IN CAROSAFE (P)
CAROLINA BIOLOGICAL SUPPLY COMPANY

1. PRODUCT DESCRIPTION

Product Name: Specimens in Carosafe (P)
Product Code(s) : Various codes ending in C, D, or S
Size: Various
Chemical Name: Product is a mixture
CAS Number: See section 2
Formula: See section 2
Synonyms: None
Distributor: Carolina Biological Supply Company 2700 York Road
Burlington, NC 27215

Chemical Emergency Information: 336-584-0381 (8am-8pm (ET) M-F) Chemtrec (Transportation Spill Response 24 hours) : 800-424-9300

2 . COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components:

Propylene Glycol(CAS# 57-55-6)
2-amino-2-ethyl-1,3-propanediol(CAS# 115-70-8)
Ethylene Glycol Phenyl Ether(CAS# 122-99-6)

The specimen will contain some residual formaldehyde (CAS# 50-00-0) from the fixation process. The amount of formaldehyde present is specific to the type of specimen and will vary with time.

TLV and PEL units:

Propylene Glycol: N/A
2-amino-2-ethyl-1,3-propanediol : N/A
Ethylene Glycol Phenyl Ether: N/A
Formaldehyde: ACGIH-TLV: 1 ppm
OSHA-PEL: 0.75 ppm

3. HAZARD IDENTIFICATION

Emergency Overview: Do not take internally. Can cause burns to eyes and skin. Vapor of some components can be irritating if inhaled.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - Do not induce vomiting. If swallowed, if conscious, give plenty of water immediately and call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

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5. FIREFIGHTING PROCEDURES

Flash Point (Method Used) : N/A

NFPA Rating: To the best of our knowledge, this mixture has not been evaluated as a whole for its NFPA rating.

Extinguisher Media: Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Under intense heat, components of this mixture may produce hazardous decomposition products, give off irritating vapors, and give off heavy smoke and flammable vapors.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Use water fog to suppress production of vapors at hazardous concentrations. Use appropriate personal protective equipment during cleanup. Containerize for disposal. Decontaminate clothing and spill area with detergent and flush with copious amounts of water.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Avoid contact with skin, eyes and clothing. Store in a cool, dry, well-ventilated area below 120 F. Other Precautions: Avoid breathing vapors.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type) : None needed under normal conditions of use.

Ventilation:

Local Exhaust: Preferred

Mechanical(General) : Yes

Special: No

Other: No

Protective Gloves: Rubber, neoprene, PVC, or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn at all times. Other

Protective Clothing or Equipment: Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: Does not apply. Product is a mixture.

Melting Point: No data available

Boiling Point: No data available

Vapor Pressure: No data available

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9. PHYSICAL DATA (Cont.)

Vapor Density(Air=1) : No data available
Specific Gravity(H2O=1) : >1
Percent Volatile by Volume: No data available
Evaporation Rate(H2O=l) : No data available
Solubility in Water: Complete
Appearance and Odor: Colorless, odorless solution

10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Temperatures above 425 F, flame
Incompatibility(Materials to Avoid) : Water reactive materials, strong oxidizers, copper, brass, aluminum, magnesium, lead, zinc, strong bases
Hazardous Decomposition Products: Not likely to occur, but if heated to decomposition, oxides of carbon and nitrogen may be evolved.
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Formaldehyde orl-rat LDSO: 800 mg/kg ihl-rat LC50: 590 mg/kg Effects of Overexposure:

Acute: See section 3

Chronic: Gastrointestinal discomfort, nausea, vomiting, lethargy, and diarrhea are listed as chronic effects. None of the components of Carosafe are listed as causing cancer. Mutation data, reproductive data, and tumorigenic data cited for formaldehyde. Formaldehyde is listed as an ACGIH suspected human carcinogen and as a NTP anticipated human carcinogen.

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

Primary Route(s) of Entry: Ingestion, skin, eye contact

12. ECOLOGICAL DATA

EPA Waste Numbers : Formaldehyde (U122)

13. DISPOSAL INFORMATION

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

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

14. TRANSPORT INFORMATION

Non- regulated

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15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic

SARA Sec. 313

Product or Components	SARA EHS	Chemicals Name List	CERCLA Chemical Category	RCRA Sec. 103 RQ lbs.	RCRA Sec. 261.33
	Sec. 302 TPQ				
Propylene Glycol	No	No	No	No	No
Formaldehyde	500	Yes	No	100	Yes
2-amino-2-ethyl- 1,3-propanediol	No	No	No	No	No
Ethylene Glycol	No	No	No	No	No
Phenyl Ether					

SEC@16. ADDITIONAL INFORMATION

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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIHAmerican Conference of Governmental Industrial Hygienists
 CAS NumberChemical Services Abstract Number
 CERCLAComprehensive Environmental Response, Compensation, and Liability Act
 DOTU.S. Department of Transportation
 IARCInternational Agency of Research on Cancer
 N/A.....Not Available
 NTPNational Toxicology Program
 OSHAOccupational Safety and Health Administration
 PELPermissible Exposure Limit
 ppmparts per million
 RCRAResource Conservation and Recovery Act
 SARA.....Superfund Amendments and Reauthorization Act
 TLVThreshold Limit Value
 TSCA.....Toxic Substances Control Act