

MATERIAL SAFETY DATA SHEET

SPECIMENS IN CAROSAFE (P)
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 03/24/05
Replaces: 07/16/04
Printed: 03/30/05

1. PRODUCT DESCRIPTION

Product Name: Specimens in Carosafe (P)
Product Code(s): Various
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 Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal 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: 0.3 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.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): N/A

NFPA Rating: Health 1
Flammability 1
Reactivity 0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

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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
Vapor Density(Air=1):	No data available
Specific Gravity(H ₂ O=1):	>1
Percent Volatile by Volume:	No data available
Evaporation Rate(H ₂ O=1):	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: If heated to decomposition, oxides of

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carbon and nitrogen may be evolved.
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Formaldehyde orl-rat LD50: 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

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

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

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name	Chemical		
		List	Category		
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					

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

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

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CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act