

# MATERIAL SAFETY DATA SHEET

SPECIMENS IN CAROSAFE (P)  
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00  
Replaces: None  
Printed: 18/10/01

## 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 Information: 800-227-1150 (8am-5pm (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.

## 5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): N/A

NFPA Rating: To the best of our knowledge, this mixture has not been

## MATERIAL SAFETY DATA SHEET

SPECIMENS IN CAROSAFE (P)  
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00  
Replaces: None  
Printed: 18/10/01

evaluated

as a whole for its NFPA rating.

Extinguisher Media:

Use dry chemical, CO<sub>2</sub> 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

Vapor Density(Air=1): No data available

Specific Gravity(H<sub>2</sub>O=1): >1

## MATERIAL SAFETY DATA SHEET

SPECIMENS IN CAROSAFE (P)  
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00  
Replaces: None  
Printed: 18/10/01

---

Percent Volatile by Volume: No data available  
Evaporation Rate (H<sub>2</sub>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: 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 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

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

## MATERIAL SAFETY DATA SHEET

SPECIMENS IN CAROSAFE (P)  
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00  
Replaces: None  
Printed: 18/10/01

---

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 Services Abstract Number  
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act  
DOT.....U.S. Department of Transportation  
IARC.....International Agency of Research on Cancer  
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