

## **MATERIAL SAFETY DATA SHEET**

Specimens in Carolina's Perfect Solution  
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 10/16/03  
Replaces: 05/09/00  
Printed: 10/16/03

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

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### **1. PRODUCT DESCRIPTION**

Product Name: Specimens in Carolina's Perfect Solution™  
Product Code(s): Various  
Size: Various  
Chemical Name: Product is a mixture  
CAS Number: See section 2  
Formula: See section 2  
Synonyms: Specimens in Carosafe 2000  
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:  
The components of this mixture are proprietary  
TLV and PEL units: 1000 ppm TLV/PEL for one component

### **3. HAZARD IDENTIFICATION**

Emergency Overview: Do not take internally. May cause irritation to skin and eyes.

### **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): >200 F closed cup  
NFPA Rating: Health 1  
Flammability 1  
Reactivity 0

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**

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Steps to be Taken in Case Material is Released or Spilled:  
Ventilate area of spill. Eliminate all sources of ignition.  
Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## 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. Control access to this and all other chemicals. Wear personal protective equipment as is outlined in Section 8 and on the product label.  
Other Precautions: None known

## 8. SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): None needed under normal conditions of use.  
Ventilation:  
Local Exhaust: Not necessary  
Mechanical (General): Required  
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.  
Boiling Point: 153°F for Carolina's Perfect Solution™  
Vapor Pressure (mmHg): 22.756 for Carolina's Perfect Solution™  
Vapor Density (Air=1): 0.9887 for Carolina's Perfect Solution™  
Specific Gravity (H2O=1): .99 for Carolina's Perfect Solution™  
Percent Volatile by Volume: No data available  
Evaporation Rate (Butyl Acetate=1): 5.0 for Carolina's Perfect Solution™  
pH: 6.62 for Carolina's Perfect Solution™  
Solubility in Water: Carolina's Perfect Solution™ is an aqueous mixture.  
Appearance and Odor: Carolina's Perfect Solution™ is a colorless solution with minimal chemical odor. Specimens exhibit a biological smell and minimal chemical odor.  
Stability: Stable  
Conditions to Avoid: Temperatures above 425 F, flame  
Incompatibility (Materials to Avoid): Alkalies, amines, sulfides, strong oxidizers, metals, strong bases

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Hazardous Decomposition Products: If heated to decomposition, carbon monoxide, carbon dioxide, nitrogen oxides and other unidentified hydrocarbons will be evolved.  
Hazardous Polymerization: Will not occur  
Toxicity Data: LD50: >5000 mg/kg  
Effects of Overexposure: Acute: See section 3  
Chronic: To the best of our knowledge, the chronic effects data for this mixture as a whole have not been reported. This mixture contains a component listed by IARC, NTP, or OSHA as causing cancer. Mutation data, reproductive data, and/or tumorigenic data have been cited for components of this mixture.  
Conditions Aggravated by Overexposure: Pre-existing conditions of the respiratory system  
Target Organs: N/A  
Primary Route(s) of Entry: Inhalation, skin, eye contact  
EPA Waste Numbers: N/A

## 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.  
Non-regulated  
14. TRANSPORT INFORMATION

## 15. REGULATORY INFORMATION

This product contains material known to cause cancer, birth defects or other reproductive harm.

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