Safety Data Sheet

Specimens in Carosafe®

Section 1  Product Description

Product Name: Specimens in Carosafe®
Recommended Use: Science education applications
Synonyms: None Known
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;

DANGER

May cause cancer.

GHS Classification:
Carcinogenicity Category 1A, Skin Corrosion/Irritation Category 3, Acute Toxicity - Oral Category 5

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Section 3  Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>89</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>10</td>
</tr>
<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>0.67</td>
</tr>
<tr>
<td>2-Amino-2-Ethyl-1,3-Propanediol</td>
<td>115-70-8</td>
<td>0.33</td>
</tr>
</tbody>
</table>

Specimens will contain some residual formaldehyde. Cow and Sheep specimens will contain some residual phenol.

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, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5  Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
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 dioxide, Carbon monoxide
Section 6  
Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:
No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Surfaces may become slippery after spillage. 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.

Section 7  
Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapor/spray.

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

Storage Code: Green - general chemical storage

Section 8  
Protection Information

Chemical Name  | ACGIH (TWA) | ACGIH (STEEL) | OSHA PEL (TWA) | OSHA PEL (STEEL)  
--- | --- | --- | --- | ---  
Propylene Glycol | N/A | N/A | N/A | N/A  
2-Phenoxyethanol | 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. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

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

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

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.

Gloves: No information available

Section 9  
Physical Data

Formula: See Section 3
Molecular Weight: No data available
Appearance: Colorless Preserved Specimen
Odor: Mild distinct sweet, pungent biological odor.
Odor Threshold: No data available
pH: 7
Melting Point: -60 C
Boiling Point: 100 C
Flash Point: > 200 C
Flammable Limits in Air: No data available

Vapor Pressure: No data available
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: >1
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Section 10  
Reactivity Data
Safety Data Sheet

Reactivity: No data available
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: None known.
Incompatible Materials: Metals, Strong oxidizing agents, Strong alkalies, Caustics (bases)
Hazardous Decomposition Products: Carbon oxides, Nitrogen containing gases
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.
Symptoms (Acute): Diarrhea, Nausea, Respiratory Irritation, Dermatitis, Allergies
Delayed Effects: No data available

Acute Toxicity:  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Oral LD50 Rat 90000 mg/kg</td>
<td>Dermal LD50 Rabbit 20800 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>Oral LD50 Dog 22000 mg/kg</td>
<td>Dermal LD50 Rabbit 20800 mg/kg</td>
<td></td>
</tr>
<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>Oral LD50 Rat 1260 mg/kg</td>
<td>Dermal LD50 Rabbit 14422 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral LD50 Mouse 933 mg/kg</td>
<td>Dermal LD50 Rabbit 5 ml/kg</td>
<td></td>
</tr>
<tr>
<td>2-Amino-2-Ethyl-1,3-Propanediol</td>
<td>115-70-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity:  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>2-Amino-2-Ethyl-1,3-Propanediol</td>
<td>115-70-8</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

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: No information available
Chronic: No information available
Section 12  Ecological Data

Overview:  This material is not expected to be harmful to the ecology.
Mobility:  This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence:  Biodegradation, Dissolved into water
Bioaccumulation:  Bioconcentration is not expected to occur.
Degradability:  Biodegrades at a moderate rate.
Other Adverse Effects:  No data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Eco Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>No data available</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>96 HR LC50 PIMEPHALES PROMELAS 710 MG/L [STATIC]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 HR LC50 PIMEPHALES PROMELAS 51400 MG/L [STATIC]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 HR LC50 ONCORHYNCHUS MYKISS 51600 MG/L [STATIC]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 HR EC50 DAPHNIA MAGNA &gt; 1000 MG/L [STATIC]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 HR EC50 DAPHNIA MAGNA &gt; 10000 MG/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 19000 MG/L</td>
</tr>
<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>96 HR LC50 PIMEPHALES PROMELAS 366 MG/L [STATIC]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 HR EC50 DAPHNIA MAGNA &gt; 500 MG/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>72 HR EC50 DESMODESMUS SUBSPICATUS &gt; 500 MG/L</td>
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<tr>
<td>2-Amino-2-Ethyl-1,3-Propanediol</td>
<td>115-70-8</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Section 13  Disposal Information

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:  Not regulated for transport by US DOT.
Air - IATA Proper Shipping Name:  Not regulated for air transport by IATA.
Section 15  Regulatory Information

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>§ 313 Name</th>
<th>§ 304 RQ</th>
<th>CERCLA RQ</th>
<th>§ 302 TPQ</th>
<th>CAA 112(2) TQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2-Amino-2-Ethyl-1,3-Propanediol</td>
<td>115-70-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**California Prop 65:**
WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16  Additional Information

**Revised:** 02/10/2016  **Replaces:** 02/10/2016  **Printed:** 03-21-2016

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 Industrial Hygienists
- **CAS**: Chemical Abstract Service Number
- **CERCLA**: Comprehensive Environmental Response, Compensation, and Liability Act
- **DOT**: U.S. Department of Transportation
- **IARC**: International Agency for 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
- **IDLH**: Immediately dangerous to life and health