

# MATERIAL SAFETY DATA SHEET

RED CABBAGE SOLUTION  
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00  
Replaces: None  
Printed: 22/05/00

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## 1. PRODUCT DESCRIPTION

Product Name: Red Cabbage Solution  
Product Code(s): 97-2101, 97-2141  
Size: 250 mL  
Chemical Name: None  
CAS Number: 67-63-0  
Formula: CH<sub>3</sub>CHOOCH<sub>3</sub>  
Synonyms: Isopropyl Alcohol  
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: Isopropanol (CAS#67-63-0) 14.2%  
Naugard BHT(2,6-di-tert-butyl-p-cresol) (CAS#128-37-0) 2.5%  
TLV and PEL units: IPA: ACGIH-TLV 400 ppm(TWA) STEL 500 ppm  
OSHA-PEL 400 ppm(TWA)  
Naugard BHT: ACGIH-TLV 10mg/m<sup>3</sup>  
OSHA-PEL 10mg/m<sup>3</sup>

## 3. HAZARD IDENTIFICATION

Emergency Overview: Do not ingest. Poison by ingestion and subcutaneous routes. When heated to decomposition it emits acrid smoke and fumes.  
Potential Health Effects:  
Eyes: May cause irritation.  
Skin: May cause irritation.  
Ingestion: May cause gastrointestinal discomfort.  
Inhalation: May cause irritation to respiratory tract.

## 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 - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately 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): (TCC)53F;(TOC)63F (IPA)

NFPA Rating: None established

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: IPA LEL: 2.5%, UEL: 12.0%

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: Vapors are heavier than air and can travel distances to ignition source and flash back.

### 6. SPILL OR LEAK PROCEDURES

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 absorbant and containerize for disposal.

### 7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep away from heat, sparks, and open flame. This material should be kept in an area suitable for the storage of highly flammable liquids. Bond and ground containers when transferring liquid. Keep container closed when not in use. Do not take internally.

Other Precautions: Wash thoroughly after handling.

### 8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.Ventilation:

Local Exhaust: Yes

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: No data available

Melting Point: N/A

Boiling Point: N/A

Vapor Pressure: N/A

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Vapor Density(Air=1): N/A  
Specific Gravity(H2O=1): N/A  
Percent Volatile by Volume: N/A  
Evaporation Rate(H2O=1): N/A  
Solubility in Water: N/A  
Appearance and Odor: Cloudy, burgundy-like color with a cooked cabbage odor.  
Isopropanol odor.

### 10. REACTIVITY DATA

Stability: Stable  
Conditions to Avoid: Heat, sparks, and open flame  
Incompatibility(Materials to Avoid): Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates  
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide  
Hazardous Polymerization: Will not occur

### 11. TOXICITY DATA

Toxicity Data:  
Isopropanol orl-rat LD50: 5045 mg/kg, ihl-ratLDLo: 12000 ppm/8H  
Naugard BHT orl-rat LD50: >890 mg/kg  
Effects of Overexposure:  
Acute: See section 3  
Chronic: IPA and Naugard: mutation data cited, reproductive data cited.  
Not listed as causing cancer by IARC, NTP, or OSHA.  
Conditions Aggravated by Overexposure: Pre-existing conditions of the skin or eyes may be aggravated.  
Target Organs: Skin, eyes, liver, kidneys  
Primary Route(s) of Entry: No data available

### 12. ECOLOGICAL DATA

EPA Waste Numbers: 2-Propanol(D001)

### 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

Isopropanol, 3, UN1219, II, Flammable Liquid

### 15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory  
Hazard Category for SARA Section 311/312 Reporting: Acute

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Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name List	Chemical Category		
Isopropanol	No	No	Yes	No	No
Naugard BHT	No	No	No	No	No

## 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