

# **MATERIAL SAFETY DATA SHEET**

2-PROPANOL, ANHYDROUS  
CAROLINA BIOLOGICAL

Revised: 10/13/09  
Replaces: 06/18/08  
Printed: 08/03/10

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## **1. PRODUCT DESCRIPTION**

Product Name: 2-Propanol, Anhydrous  
Product Code(s): 88-4863, 88-4865, B6000, B6090, B6103, B6105, B6101  
Size: 60ml, 120ml, 125, 4L, 20L  
Chemical Name: Isopropyl Alcohol  
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: Isopropanol(CAS#67-63-0)99%  
TLV and PEL units: ACGIH-TLV: 400 ppm (STEL) 200 ppm (TWA)  
OSHA-PEL : 400 ppm (TWA)

## **3. HAZARD IDENTIFICATION**

Emergency Overview: Do not ingest. Poison by ingestion & subcutaneous routes. Highly flammable. Keep container tightly closed. Keep away from sources of ignition.

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 some water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. 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 and quiet, and get medical attention.

## **5. FIREFIGHTING PROCEDURES**

Flash Point(Method Used): 53°F (TCC); 63°F (TOC)

NFPA Rating: Health: 1  
Fire: 3  
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: LEL: 2.0%, UEL: 12.7%

Autoignition Temperature: 852°F

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### 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 may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

## **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 absorbent and containerize for disposal.

## **7. SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling or Storing: Keep away from heat, sparks,

& open flame. This material should be kept in an area suitable for the storage of highly flammable liquids. Bond & 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 apron, eye wash, and safety shower.

## **9. PHYSICAL DATA**

|                             |  |
|-----------------------------|--|
| Molecular Weight:           | 60.10  |
| Melting Point:              | -88.5°C to -89.5°C                                       |
| Boiling Point:              | 82.5°C( 179°F)   |
| Vapor Pressure:             | 42 hPa at 20°C   |
| Vapor Density(Air=1):       | 2.07   |
| Specific Gravity(H2O=1):    | 0.7861 at 20°C   |
| Percent Volatile by Volume: | 99%  |
| Evaporation Rate(BuAc=1):   | 2.3  |
| Solubility in Water:        | Miscible   |
| Appearance and Odor:        | Clear colorless liquid with characteristic alcohol odor. |

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## **10. REACTIVITY DATA**

Stability: Stable  
Conditions to Avoid: Heat, sparks, & 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: Oral Rat LD50: 5045 mg/kg  
Oral Mouse LD50: 3600 mg/kg

Effects of Overexposure:  
Acute: See section 3  
Chronic: None

Conditions Aggravated by Overexposure: Irritation of the skin and eyes.  
Rapid absorption to the skin. Irritation of nose throat, headache, nausea.

Target Organs: Eyes, skin respiratory system, lungs, central nervous system, liver, kidneys.

Primary Route(s) of Entry: Inhalation, ingestion, skin contact, eye contact, absorption.

## **12. ECOLOGICAL DATA**

EPA Waste Numbers: 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**

Description: Isopropanol, 3, UN1219, II

## **15. REGULATORY INFORMATION**

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

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

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|            |    |     |    |    |    |
|------------|----|-----|----|----|----|
| 2-Propanol | No | Yes | 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

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CAS Number..Chemical Abstracts Service Number  
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