

## **MATERIAL SAFETY DATA SHEET**

CHROMATOGRAPHY SOLVENT  
CAROLINA BIOLOGICAL

Revised: 05/15/08  
Replaces: 09/12/07  
Printed: 05/20/08

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### **1. PRODUCT DESCRIPTION**

Product Name: Chromatography Solvent  
Product Code(s): 74-6865, 74-6470, 74-6475, 84-0546, 10-1036, 68-8950  
68-8951, 68-8953  
Size: 120 ml  
Chemical Name: N/A  
CAS Number: See section 2  
Formula: See section 2  
Synonyms: Petroleum Ether:Acetone Solution  
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: Petroleum Ether (CAS#8032-32-4) 90%  
Acetone (CAS#67-64-1) 10%

TLV and PEL units: Petroleum Ether  
ACGIH-TLV 300 ppm (TWA)  
Acetone  
ACGIH-TLV 750 ppm (STEL) 500 ppm (TWA)  
OSHA-PEL 1000 ppm (TWA)

### **3. HAZARD IDENTIFICATION**

Emergency Overview: Irritating to skin and eyes. May cause dizziness, nausea, respiratory and cardiac effects. May be harmful if inhaled or swallowed. Extremely flammable.

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.

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 and quiet, and get medical attention.

### **5. FIREFIGHTING PROCEDURES**

Flash Point(Method Used): Petroleum Ether: -18 C cc  
Acetone: -20 C cc

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

Extinguisher Media:

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Use dry chemical, CO2 or appropriate foam.  
Flammable Limits in Air % by Volume: Petroleum Ether: LEL: 1.1 UEL: 5.9  
Acetone: LEL: 2.15 UEL: 13.0

Autoignition Temperature: No information available

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Highly flammable, confined material can explode on heating.

### **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 container tightly closed. Store in a cool area away from ignition sources and oxidizers.

Other Precautions: Do not breathe vapors.

### **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):	Recommended
Special:	No
Other:	No

Protective Gloves:

Nitrile 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:	Product is a mixture
Melting Point:	-73C(Petroleum Ether) -94.8C(Acetone)
Boiling Point:	35-60C(Petroleum Ether) 56C (Acetone)
Vapor Pressure:	No information available
Vapor Density(Air=1):	2.5 (Petroleum Ether) 2.0 (Acetone)
Specific Gravity(H2O=1):	0.6 (Petroleum Ether) 0.79 (Acetone)
Percent Volatile by Volume:	90-100%
Evaporation Rate(BuAc=1):	6.82(Petroleum Ether) 14.4 (Acetone)
Solubility in Water:	Insoluble
Appearance and Odor:	Clear, colorless liquid; gasoline-like odor

### **10. REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Vapor contact with spark, flame, or hot surface

Incompatibility(Materials to Avoid): Strong oxidizing agents

Hazardous Decomposition Products: COx

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Hazardous Polymerization: Will not occur

## 11. TOXICITY DATA

Toxicity Data:

Petroleum Ether: inh-rat LC50: 3400 ppm/4H

Acetone: orl-rat LD50: 10700 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Not listed as causing cancer by NTP, IARC or OSHA.

Conditions Aggravated by Overexposure: No information available

Target Organs: Lungs, central nervous system and kidneys.

Primary Route(s) of Entry: Inhalation, Ingestion

## 12. ECOLOGICAL DATA

EPA Waste Numbers: D001, U002

## 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

Flammable Liquid, n.o.s. (Petroleum Ether, Acetone), 3, UN1993,II

## 15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute, Fire

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		
Petroleum Ether	No	No	No	No	No
Acetone	No	Yes	No	5000	Yes

## 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 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

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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