

Material Safety Data Sheet



Chromatography Solvent

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Chromatography Solvent

Product Code(s): 74-6865, 74-6470, 74-6475, 84-0546, 10-1036, 68-8950, 68-6865, 68-8953, C70594

Size: 120 mL

Chemical Name: N/A

CAS Number: See Section 3

Formula: See Section 3

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** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Extremely flammable. Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. Vapours may cause drowsiness and dizziness.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Acetone (CAS#67-64-1) 10%; Petroleum Ether (CAS#8032-32-4) 90%

TLV units: Acetone: ACGIH-TLV 750 ppm (STEL) 500 ppm (TWA)

Petroleum Ether: ACGIH-TLV 300 ppm (TWA)

PEL units: Acetone: OSHA-PEL 1000 ppm (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

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

NFPA Rating:

Health: 1

Fire: 3

Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: (Petroleum Ether) LEL: 1.1% UEL: 5.9%

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: Extremely flammable.
Risk of explosion if heated under confinement.

Section 6 - Spill or Leak Procedures

Steps to Take 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.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep away from ... (incompatible materials to be indicated by the manufacturer).

Keep away from sources of ignition - No smoking.

Do not breathe gas/fumes/vapour/spray.

Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. 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: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: N/A

Boiling Point: 35-60 °C (Pet. Ether)

Vapor Density(Air=1): 2.5 (Pet. Ether)

Percent Volatile by Volume: 90-100%

Solubility in Water: Practically Insoluble

Melting Point: -73 °C (Pet. Ether)

Vapor Pressure: N/A

Specific Gravity (H₂O=1): 0.6 (Pet. Ether)

Evaporation Rate (BuAc=1): 6.82 (Pet. Ether)

Appearance and Odor: Clear, colorless liquid with characteristic

odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Oxidizers,

Hazardous Decomposition Products: CO_x,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: (Acetone) orl-rat LD50 10700 mg/kg

(Petroleum Ether) inh-rat LC50 3400 ppm/4H

Effects of Overexposure:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

Target Organs: Kidneys, Respiratory system, Central Nervous System,

Primary Route(s) of Entry: Inhalation and ingestion.

Section 12 - Ecological Data

EPA Waste Numbers: D001, U002

Section 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.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1993, Flammable Liquid, n.o.s. (Petroleum Ether, Acetone), 3, II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

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

Name List:

Acetone: Yes

Petroleum Ether: No

Chemical Category:

Acetone: No

Petroleum Ether: No

CERCLA Section 103 RQ(lb.): Acetone: 5000

Petroleum Ether: No

RCRA Section 261.33: Acetone: Yes

Petroleum Ether: No

Section 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