1. PRODUCT DESCRIPTION

Product Name: Chromatography Solvent

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

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)

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:
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
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

<table>
<thead>
<tr>
<th>Product or Components</th>
<th>SARA Sec. 313</th>
<th>EHS Chemicals</th>
<th>CERCLA</th>
<th>RCRA</th>
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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
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