Chromatography Solvent (Petroleum Ether/Acetone)

CAROLINA® www.carolina.com

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Chromatography Solvent (Petroleum Ether/Acetone) Science education applications Petroleum Ether: Acetone Solution Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Highly flammable liquid and vapor. Causes serious eye irritation. May cause genetic defects. May cause cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

GHS Classification:

Germ Cell Mutagenicity Category 1B, Carcinogenicity Category 1B, Aspiration Hazard Category 1, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2, Hazardous to the aquatic environment - Chronic Category 2, Acute Toxicity - Inhalation Gas Category 5, Acute Toxicity - Oral Category 5

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

Section 3	Composition / Information on Ingredients				
Chemical Name Petroleum ether	CAS # % 8032-32-4 90				
Acetone	67-64-1 10				
Section 4	First Aid Measures				
Emergency and First	st Aid Procedures				
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.				
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with				

Ingestion:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Section 5

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection:

Fire and/or Explosion Hazards:

Hazardous Combustion Products:

Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Extremely flammable. Risk of explosion if heated under confinement. Carbon dioxide, Carbon monoxide

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water/shower.

Section 6		Spill or Leak	Procedures				
Steps to Take in Released or Spill		Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Collect spillage.					
Section 7		Handling ar	nd Storage				
Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting// equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Keep away from (incompatible materials to be indicated by the manufacturer). Keep away from sources of ignition - No smoking. Do not				tly closed. ighting// arge. Wash ive clothing/eye (incompatible oking. Do not		
Storage:	breathe gas/fumes/vapor/spray. Keep container tightly closed in a cool, well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly						
Storage Code:	closed in a cool, well-ventilated place. Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.						
Section 8		Protection I	nformation				
	ACGIH OSHA PEL				A PEL		
Chemical Name Petroleum Ether		(TWA) N/A	(STEL) N/A	(TWA) (Vacated) 300 ppm 1,350 mg/m3	(STEL) (Vacated) 400 ppm 1,800 mg/m3		
Acetone	500 ppm TWA 750 ppm STEL 1000 ppm TWA;				N/A		

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection: Respirator Type(s): Eye Protection:

Skin Protection:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Lab coat, apron, eye wash, safety shower.

2400 mg/m3 TWA

No respiratory protection required under normal conditions of use.

NIOSH approved air purifying respirator with organic vapor cartridge.

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Nitrile

Gloves:

Section 9

Physical Data

Formula: See Section 3 Molecular Weight: N/A Appearance: Colorless Liquid Odor: Strong Gasoline-like Odor Threshold: No data available pH: No data available Melting Point: < -73 C Boiling Point: 20 - 75 C Flash Point: -20 C Elammable Limits in Air: (Petroleum Ether) | El : 1.1% | |El : Vapor Pressure: N/A Evaporation Rate (BuAc=1): 6.82 (Pet.Ether) Vapor Density (Air=1): 2.5 (Pet.Ether)

Vapor Density (Air=1): 2.5 (Pet. Ether) Specific Gravity: 0.6 (Pet. Ether) Solubility in Water: Practically Insoluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 90-100%

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Section 10	Reactivity Data
Reactivity:	No data available
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Incompatible Materials:	Strong oxidizing agents, Caustics (bases), Peroxides, Strong acids, Oxidizing materials, Halogens
Hazardous Polymerization:	Will not occur
Section 11	Toxicity Data

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Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, Ingestior Eye disorders No data available	n, and Skin contact.			
Acute Toxicity: Chemical Name Petroleum ether		CAS Number 8032-32-4	Oral LD50 Oral LD50 Rat > 4300 mg/kg Oral LD50 Mouse	Dermal LD50	Inhalation LC50 INHALATION LC50 Rat > 1400 ppm
Acetone		67-64-1	> 4300 mg/kg Oral LD50 Mouse 3000 mg/kg	Dermal LD50 Rabbit 20000 mg/kg	bb
Carcinogenicity: Chemical Name Acetone		CAS Number 67-64-1	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects:					

Evidence of a mutagenic effect. Mutagenicity: Teratogenicity: No evidence of a teratogenic effect (birth defect). Sensitization: No evidence of a sensitization effect. **Reproductive:** No evidence of negative reproductive effects. Target Organ Effects: Acute: Central Nervous System, Cardiovascular system Chronic: Male Reproductive System

Ecological Data

Overview:	Slight ecological hazard. In h wildlife.	igh concentrations, this product may be dangerous to plants and/or		
Mobility:	No data			
Persistence:	Evaporation into atmosphere, Biodegradation			
Bioaccumulation:	No data	-		
Degradability:	No data			
Other Adverse Effects:	No data			
Chemical Name	CAS Number	Eco Toxicity		
Petroleum ether	8032-32-4	72 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 4700		
		MG/L		
Acetone	67-64-1	96 HR LC50 LEPOMIS MACROCHIRUS 8300 MG/L		
		96 HR LC50 ONCORHYNCHUS MYKISS 4.74 - 6.33 ml/l		
		48 HR EC50 DAPHNIA MAGNA 12600 - 12700 MG/L		

Section 13

Section 12

Disposal Information

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Section 14

Ground - DOT Proper Shipping Name:

UN1993, Flammable liquids, n.o.s., (Acetone, Petroleum ether); CL 3; PG II

Air - IATA Proper Shipping Name:

UN1993, Flammable liquids, n.o.s., (Acetone, Petroleum ether); CL 3; PG II

Regulatory Information

Replaces: 01/26/2016

TSCA Status:

Section 15

All components in this product are on the TSCA Inventory.

Transport Information

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Petroleum Ether	8032-32-4	No	No	No	No	No
Acetone	67-64-1	No	No	5000 lb final RQ; 2270 kg final RQ	No	No

Section 16

Additional Information

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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.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health