

Manufacturer Information Company Name:

Phone Number:

Email Address:

Web Site Address:

Information in case of emergency

Product Codes:

Product Name:

Product Use:

SAFETY DATA SHEET Product 40-4015-XX

1. Product and Company Identification

40-4015-XX Cap Mix B For Research Use Only

Glen Research Corporation 22825 Davis Drive, #100 Sterling, VA 20164 USA +1-703-437-6191 www.glenresearch.com msds@glenres.com Chemtrec, 800-424-9300; Outside USA +1-703-527-3887

2. Hazards Identification



Pictograms:

Signal Words: Danger

GHS Hazard Statements

H225: Highly Flammable Liquid and Vapor.

H302+312+332: Harmful if swallowed, in contact with skin, or if inhaled.

H315: Causes skin irritation.

H318: Causes serious eye damage.

GHS Precautionary Statements

P103: Read label before use.

P210: Keep away from heat/sparks/open flames/hot surfaces – No Smoking.

P233: Keep container tightly closed.

P260: Avoid breathing fumes or vapors.

P270: Do not eat, drink or smoke when using this product.

P271: Use only in a well ventilated area.

P280: Wear protective gloves / protective clothing / eye protection / face protection.

GHS Response Statements

P301+330: IF SWALLOWED: Rinse mouth with water.

P302+350: IF ON SKIN: Gently wash with soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so - continue rinsing.

P306+360: IF ON CLOTHING: Rinse contaminated clothing and skin immediately with plenty of water before removing clothes.

P310: Immediately Call a POISON CENTER or doctor/physician.

P362: Take off contaminated clothing and wash before use.

GHS Storage and Disposal Phrases

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents / container in a safe way in accordance with all federal, state and local regulations.

Emergency Overview

Flammable Liquid, Corrosive, Target organ effect, Harmful by ingestion, Harmful by skin absorption, Irritant

Target Organs

Respiratory System, Cardiovascular System, Blood, Kidney, Liver, Central Nervous System

SAFETY DATA SHEET MSDS 40-4015-XX

3. Composition/Information on Ingredients					
Product Name	CAS #	EC-No	Concentration	M.W.	Formula
Acetonitrile	75-05-8	200-835-2	80%	41.05 g/mol	C_2H_3N
1-Methylimidazole	616-47-7	210-484-7	20%	82.10 g/mol	$C_4H_6N_2$

4. First Aid Measures

Emergency and First Aid Procedures

If inhaled:

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

In case of skin contact:

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Wash clothing before reuse. Get medical attention if symptoms occur after washing.

If swallowed:

Rinse mouth with water. Do not induce vomiting. Get medical attention.

If in contact with eyes:

Rinse cautiously with water for several minutes. Remove contact lenses if present and safe to do so. Continue rinsing. Get medical attention.

Signs and Symptoms of Exposure

Nausea, Vomiting, Headache, Hypersalivation, Chest pain or tightness, Profuse sweating, Abdominal pain and hematemesis, Weakness, Stupor, Respiratory depression, Metabolic acidosis, Convulsions, Tachycardia, Shock, Eye irritation.

Treatment

Treat as cyanide poisoning. Delayed health effects possible. The onset of symptoms is generally delayed pending conversion to cyanide in the body.

5. Fire Fighting Measures

Suitable Extinguishing Media

Use a Class A Extinguisher (Dry chemical, carbon dioxide, water or foam).

Special protective equipment for fire fighters

Wear self-contained breathing apparatus (SCBA) for fire fighting if necessary.

Wear protective clothing to prevent contact with skin and eyes.

Flammable Properties and Hazards

Highly flammable liquid and vapor. Vapor may travel distances to sources of ignition.

6. Accidental Release Measures

Personal Precautions

Avoid breathing vapors. Evacuate personnel to safe areas.

Protective equipment

Use personal protective equipment.

Emergency procedures

Remove all sources of ignition. Vapors may travel distances to sources of ignition. Ensure adequate ventilation.

Methods and Material for containment and cleaning up.

Absorb spillage with sand, absorbent pads. Do not let product enter the drain. Wear impermeable gloves, safety glasses and a lab coat when cleaning up the spill. Dispose of absorbent and spillage in compliance with local and state regulations.

7. Handling and Storage

Precautions To Be Taken in Handling

Handle using safe laboratory practices. Avoid all direct contact.

Recommended Storage

Controlled room temperature.

Precautions To Be Taken in Storing

Keep container tightly closed. Store in well-ventilated place.

Other Precautions

Protect from sunlight.

8. Exposure Controls/Personal Protection

Product Name	CAS #	OSHA PEL (TWA)	ACGIH TLV	OSHA (STEL)
Acetonitrile	75-05-8	40ppm	20ppm	60ppm
1-Methylimidazole	616-47-7	N/A	N/A	N/A

Engineering Controls (Ventilation etc.)

Local exhaust ventilation is usually sufficient.

Respiratory Equipment (Specify Type)

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection

Safety glasses with side shields. Wear splash resistant goggles or face shield if splashes are likely to occur.

Protective Gloves

Impermeable, chemically resistant gloves.

Other Protective Clothing

Lab coat, chemical resistant lab coat, protective chemical suit, based on risk assessment of activities.

Work/Hygienic/Maintenance Practices

Wash hands after handling. Do not eat, drink, or smoke when using this product.

9. Physical and Chemical Properties

Physical State: Appearance:	[] Gas [X] Liquid [] Solid Liquid, clear.
Odor:	Pungent, sweet, ether-like odor (Acetonitrile)
Odor Threshold:	170ppm (Acetonitrile)
pH:	11 (1-Methylimidazole)
Melting Point:	No data
Freezing Point:	No data
Initial Boiling Point and Boiling Range:	No data
Flash Point:	2.0°C (Acetonitrile)
Specific Gravity:	0.83g/mL
Evaporation Rate:	No data
Flammability:	Highly flammable
Explosive Limits:	LEL: No Data UEL: No Data
Vapor Pressure (vs. Air or mm Hg):	No data
Vapor Density (vs. Air = 1):	No data
Solubility in Water:	Fully soluble
Partition Coefficient (n-octanol/water):	No data
Auto-ignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity:	No data
Percent Volatile:	No data
	10. Stability and Reactivity

Reactivity

Stable material, hazardous polymerization will not occur.

SAFETY DATA SHEET MSDS 40-4015-XX

Chemical Stability: Possibility of Hazardous R	eactions:	Unstable []	Stable [X]	
Vapors may form explo		n air.		
Conditions To Avoid - Insta				
Heat, flames, and spar		temperature and	direct sunlight.	
Incompatibility - Materials	Γο Avoid			
Strong oxidizing reage	nts, alkali metals			
Hazardous Decomposition				
Oxides of nitrogen, car	bon, and hydrog	en cyanide may e	volve when heated	to decomposition.
	11. T	oxicological In	formation	
Route(s) of Entry:				
Inhalation? Yes	Skii	n? Yes Eyes?	Yes Ingestion? Y	íes 🛛
Acute Toxicity				
No data				
Skin corrosion/irritation Severe Irritant				
Serious eye damage/ eye in Serious eye damage	ritation			
Respiratory or skin sensitian No data available	zation			
Germ Cell mutagenicity No data available				
Carcinogenicity				
Product Name	CAS #	NTP	IARC	OSHA
Acetonitrile	75-05-8	Not listed	Not listed	Not listed
1-Methylimidazole	616-47-7	Not listed	Not listed	Not listed
Not anticipated to be carcino	genic			
Reproductive toxicity No data available				
Specific target organ toxic No data available	ty – single expo	osure (GHS)		
Specific target organ toxic No data available	ty – repeated ex	xposure (GHS)		
Aspiration hazard No				
Medical Conditions Genera No data available.	Ily Aggravated	By Exposure		
To the best of our know This product should be				nave not been investigated. icals.
	12.	Ecological Info	rmation	
Ecotoxicity		-		
Acetonitrile has a low a Pimephales promelas				
Persistence and degradabi No data available	•	,	0	
Bioaccumulative potential				
Bioaccumulation of ac	etonitrile is not a	nticipated.		
Mobility in soil				
No data available				

Other adverse effects

No data available

13. Disposal Considerations

Waste Disposal Method

Observe all federal, state and local regulations. For Contaminated Packaging - dispose of in compliance with regulations. Contact a licensed professional waste disposal service for proper disposal. Burn in a chemical incinerator equipped with afterburner and scrubber.

14. Transport Information

LAND TRANSPORT (49CFR)

UN Number – UN2924, Class 3, (8) Packing Group II Proper Shipping Name: Flammable Liquid, Corrosive N.O.S. (Acetonitrile/1-Methylimidazole Solution) Reportable Quantity (RQ) 5000 lbs (Acetonitrile) Marine Pollutant: No Poison Inhalation Hazard (PIH): No

AIR TRANSPORT (ICAO/IATA)

UN Number – UN2924, Class 3, (8) Packing Group II, EMS-No: F-E, S-D Proper Shipping Name: Flammable Liquid, Corrosive N.O.S. (Acetonitrile/1-Methylimidazole Solution)

MARINE TRANSPORT (IMDG/IMO)

UN Number – UN2924, Class 3, (8) Packing Group II Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Acetonitrile/1-Methylimidazole Solution), Marine Pollutant: No

15. Regulatory Information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: Acetonitrile, CAS 75-05-8

SARA 311/312

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Acetonitrile	75-05-8
Pennsylvania Right to Know Com	ponents
Acetonitrile	75-05-8
1-Methylimidazole	616-47-7
New Jersey Right to Know Comp	onents
Acetonitrile	75-05-8
1-Methylimidazole	616-47-7
California Prop. 65 Components	

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

For all other inquiries about this product contact Glen Research at 1-800-327-GLEN or 1-703-437-6191.

The information provided herein is based on sources believed to be reliable as of December 1, 2014 and pertains only to the material designated. Glen Research Corporation makes no warranty or representation to its completeness, accuracy or currency. This material is intended for use by persons with the pertinent technical skills, and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use and the product's proper disposal. Disposal of hazardous material may be subject to federal, state or local regulations.