



GLEN RESEARCH

SAFETY DATA SHEET Product 40-4450-XX

1. Product and Company Identification

Product Codes:	40-4450-XX
Product Name:	Trimer Diluent
Product Use:	For Research Use Only
Manufacturer Information	
Company Name:	Glen Research Corporation
	22825 Davis Drive, #100
	Sterling, VA 20164 USA
Phone Number:	+1-703-437-6191
Web Site Address:	www.glenresearch.com
Email Address:	msds@glenres.com
Information in case of emergency	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.
H319: Causes serious eye irritation.
H341+351: Suspected of causing genetic defects and cancer.

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, Suspected Carcinogen, Harmful by ingestion, Harmful by skin absorption, Irritant, Target Organ Effect.

Target Organs

Eyes, Skin, Respiratory System, Cardiovascular System, Blood, Kidney, Liver, Central Nervous System, Lungs.

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3. Composition/Information on Ingredients

Product Name	CAS #	EC-No	Concentration	M.W.	Formula
Acetonitrile	75-05-8	200-835-2	25%	41.05 g/mol	C ₂ H ₃ N
Dichloromethane	75-09-2	200-838-9	75%	84.93 g/mol	CH ₂ Cl 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 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.

Dichloromethane is metabolized to carbon monoxide that increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood. Acts as a simple asphyxiant by displacing air. May cause anesthetic effects, Difficulty in breathing, Headache, Dizziness, Nausea, Vomiting, Central Nervous System Depression, Tingling sensation, Drowsiness, Convulsions, Conjunctivitis, Pulmonary edema, Irregular breathing. Prolonged or repeated contact with skin may cause defatting and dermatitis. Contact with eyes causes Redness, Blurred vision, Tearing. Ingestion may cause gastrointestinal discomfort.

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.

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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
Dichloromethane	75-09-2	25ppm	50ppm	125ppm

Engineering Controls (Ventilation etc.)

Local exhaust ventilation is usually sufficient.

Respiratory Equipment (Specify Type)

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) based on risk assessment of activities. Cartridge type respirators are not appropriate for use with dichloromethane.

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:	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
Appearance:	Liquid, clear.
Odor:	Pungent, sweet, ether-like odor (acetonitrile)
Odor Threshold:	170ppm (acetonitrile)
pH:	No data
Melting Point:	No data
Initial Boiling Point and Boiling Range:	No data
Flash Point:	No data
Specific Gravity:	No data
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:	No data
Partition Coefficient (n-octanol/water):	No data
Auto-ignition Temperature:	No data
Decomposition Temperature:	No data

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Viscosity: No data
Percent Volatile: 100%

10. Stability and Reactivity

Reactivity

Stable material, hazardous polymerization will not occur.

Chemical Stability: Unstable [] Stable [X]

Possibility of Hazardous Reactions:

Vapors may form explosive mixture with air.

Conditions To Avoid - Instability

Heat, flames, and sparks. Extremes of temperature and direct sunlight.

Incompatibility - Materials To Avoid

Strong oxidizing reagents, alkali metals.

Hazardous Decomposition or Byproducts

Oxides of nitrogen, carbon, hydrogen cyanide, hydrogen chloride, chlorine may evolve when heated to decomposition.

11. Toxicological Information

Route(s) of Entry:

Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

Acute Toxicity

No data

Skin corrosion/irritation

Mild

Serious eye damage/ eye irritation

Serious eye irritation

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

No data available

Carcinogenicity

Product Name	CAS #	NTP	IARC	OSHA
Acetonitrile	75-05-8	Not listed	Not listed	Not listed
Dichloromethane	75-09-2	Listed	Listed	Listed

IARC – 2B Group 2b: Possibly carcinogenic to humans. (Dichloromethane)

NTP: Reasonably anticipated to be a human carcinogen. (Dichloromethane)

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard

No

Medical Conditions Generally Aggravated By Exposure

Respiratory disorders, Eye disorders, Blood disorders, Kidney disorders, Liver disorders, Neurological disorders, Skin disorders, Heart disease.

To the best of our knowledge, the toxicological properties of this substance have not been investigated. This product should be handled with the usual care when dealing with chemicals.

12. Ecological Information

Ecotoxicity

Pimephales promelas (fathead minnow) 96-hour LC50 1000mg/L (Acetonitrile)

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Pimephales promelas (fathead minnow) 96-hour LC50 310mg/L (Dichloromethane)

Persistence and degradability

No data available

Bioaccumulative potential

Bioaccumulation of acetonitrile and dichloromethane is not anticipated.

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 – UN1993, Class 3, Packing Group II

Proper Shipping Name: Flammable Liquid, N.O.S (Acetonitrile, Dichloromethane)

Reportable Quantity (RQ) 5000 lbs

Marine Pollutant: No

Poison Inhalation Hazard (PIH): No

AIR TRANSPORT (ICAO/IATA)

UN Number – UN1993, Class 3, Packing Group II

Proper Shipping Name: Flammable Liquid, N.O.S (Acetonitrile, Dichloromethane)

MARINE TRANSPORT (IMDG/IMO)

UN Number – UN1993, Class 3, Packing Group II, EMS-No F-E, S-E

Proper Shipping Name: Flammable Liquid, N.O.S (Acetonitrile, Dichloromethane)

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 313: Dichloromethane, CAS 75-09-2

SARA 311/312

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Acetonitrile 75-05-8

Dichloromethane 75-09-2

Pennsylvania Right to Know Components

Acetonitrile 75-05-8

Dichloromethane 75-09-2

New Jersey Right to Know Components

Acetonitrile 75-05-8

Dichloromethane 75-09-2

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

Dichloromethane 75-09-2

16. Other Information

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

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