



GLEN RESEARCH

SAFETY DATA SHEET Product 60-4120-XX

1. Product and Company Identification

Product Codes:	60-4120-XX
Product Name:	Quenching Buffer
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: N/A

Signal Words: N/A

GHS Hazard Statements

H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H335: May cause respiratory irritation.

GHS Precautionary Statements

P103: Read label before use.
P233: Keep container tightly closed.
P260: Avoid breathing fumes or vapors.
P270: Do not eat, drink or smoke when using this product.
P271: Use in well ventilated area.
P280: Wear protective gloves/ protective clothing/eye 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.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P362: Take off contaminated clothing and wash before use.

GHS Storage and Disposal Phrases

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

Emergency Overview

No data available.

Target Organs

No data available.

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3. Composition/Information on Ingredients

Product Name	CAS #	EC-No	Conc.	M.W.	Formula
Tris(hydroxymethyl)aminomethane (TRIS)	77-86-1	N/A	4%	121.14g/mol	C ₄ H ₁₁ NO ₃
Tris(hydroxymethyl)aminomethane hydrochloride	1185-53-1	N/A	26%	157.60g/mol	C ₄ H ₁₁ NO ₃ -HCl
Water	7732-18-5	231-791-2	70%	18.02 g/mol	H ₂ O

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

No data available.

Treatment

Treat symptomatically and supportively.

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

No data available.

6. Accidental Release Measures

Personal Precautions

Avoid breathing vapors. Evacuate personnel to safe areas.

Protective equipment

Use personal protective equipment. Avoid contact with skin, eyes, and clothing.

Emergency procedures

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.

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8. Exposure Controls/Personal Protection

Product Name	CAS #	OSHA PEL (TWA)	ACGIH TLV	OSHA (STEL)
Tris(hydroxymethyl)aminomethane (TRIS)	77-86-1	N/A	N/A	N/A
Tris(hydroxymethyl)aminomethane hydrochloride	1185-53-1	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 multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

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:	No data
Odor Threshold:	No data
pH:	7-8
Melting Point:	No data
Initial Boiling Point and Boiling Range:	No data
Flash Point:	No data
Specific Gravity:	1.1 g/mL
Evaporation Rate:	No data
Flammability:	Not 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):	Log Pow: 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.

Chemical Stability: Unstable Stable

Possibility of Hazardous Reactions:

No data

Conditions To Avoid - Instability

No data available

Incompatibility - Materials To Avoid

Strong oxidizing agents.

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Hazardous Decomposition or Byproducts

Oxides of carbon, nitrogen, and ammonia

11. Toxicological Information

Route(s) of Entry:

Inhalation? Yes

Skin? Yes

Eyes? Yes

Ingestion? Yes

Acute Toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

No data available

Carcinogenicity

Product Name

CAS #

NTP

IARC

OSHA

Tris(hydroxymethyl)aminomethane (TRIS)

77-86-1

Not listed

Not listed

Not listed

Tris(hydroxymethyl)aminomethane hydrochloride

1185-53-1

Not listed

Not listed

Not listed

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 data available

Medical Conditions Generally Aggravated By Exposure

No data available.

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

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

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.

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14. Transport Information

LAND TRANSPORT (49CFR)

Not a Hazardous Material

AIR TRANSPORT (ICAO/IATA)

Not a Dangerous Goods

MARINE TRANSPORT (IMDG/IMO)

Not a Dangerous Goods

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

Not Listed

SARA 311/312

No SARA Hazards

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components

Water	7732-18-5
Tris(hydroxymethyl)aminomethane (TRIS)	77-86-1
Tris(hydroxymethyl)aminomethane hydrochloride	1185-53-1

New Jersey Right to Know Components

Water	7732-18-5
Tris(hydroxymethyl)aminomethane (TRIS)	77-86-1
Tris(hydroxymethyl)aminomethane hydrochloride	1185-53-1

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.

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