

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 02-Jul-2024

#### **Revision Number** 1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product Catalog Number:	Product Description:		
60-4120-XX	Quenching buffer for Glen-Pak RNA purification		
Product Code(s)	Product Name		
60-4120-XX	Quenching Buffer		
Pure substance/mixture	Mixture		
1.2. Relevant identified uses of the	substance or mixture and uses advised against		
Recommended use	No information available		
Uses advised against	Not for human diagnostic use		
1.3. Details of the supplier of the sa	fety data sheet		
<u>Manufacturer</u> Glen Research LLC 22825 Davis Drive Sterling, VA 20164 USA			
For further information, please contac	<u>t</u>		
E-mail address	support@glenresearch.com		
Website	www.glenresearch.com		
Company Phone Number	1-703-437-6191		
1.4. Emergency telephone number	_		
Emergency Telephone	CHEMTREC Customer Number (CCN): 234802 Glen Research Corporation US: 1-800-424-9300 or Local: +1-703-527-3887 EMEA: +44 20 3885 0382 APAC: +65 3163 8374		

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.3. Other hazards

No information available.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not applicable

### 3.2 Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical name	Weight-%	REACH registration	· ·	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Water	57-83	[4]	231-791-2	[A]	-	-	-
7732-18-5							
Tris Base	10-30	No data available	201-064-4	No data available	-	-	-
77-86-1							
Tris HCI	7-13	No data available	214-684-5	No data available	-	_	-
1185-53-1							

### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Water 7732-18-5	89838.9	No data available	No data available	No data available	No data available
Tris Base 77-86-1	5900	5000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
5.2. Special hazards arising from the substance or mixture			
Specific hazards arising from the chemical	No information available.		
Hazardous combustion products	Carbon oxides. Nitrogen oxides (NOx). Ammonia.		
5.3. Advice for firefighters			
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required.		
For emergency responders	Use personal protection recommended in Section 8.		
6.2. Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
6.3. Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
6.4. Reference to other sections			
Reference to other sections	See section 8 for more information. See section 13 for more information.		

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation. Use personal protection equipment. Wash thoroughly after handling.				
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.				
7.2. Conditions for safe storage, including any incompatibilities					
<b>Storage Conditions</b> Keep container tightly closed in a dry and well-ventilated place.					
7.3. Specific end use(s)					
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.				

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	No information available. No information available.
8.2. Exposure controls	
Engineering controls	Showers Eyewash stations Ventilation systems
Personal protective equipment	
Eye/face protection	If splashes are likely to occur:. Wear safety glasses with side shields (or goggles).
Hand protection	Contact glove manufacturer for recommendations. Gloves must conform to standard EN 374.
Skin and body protection	EN ISO 6529.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	Ind chemical properties	
Physical state	Liquid	
Appearance	Clear liquid	
Color	Colorless	
Odor	No information available	
Odor threshold	No information available	
Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
рН	7 - 8	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	Completely soluble	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	1.1g/mL	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

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### 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity

No information available.

### 10.2. Chemical stability

Stability

Stable under normal conditions.

### Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Ammonia.

# **SECTION** 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

Inhalation	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available.	
Ingestion	Specific test data for the substance or mixture is not available.	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	109,150.00	mg/kg
ATEmix (dermal)	92,500.00	mg/kg
ATEmix (inhalation-gas)	99,999.00	ppm
ATEmix (inhalation-dust/mist)	99,999.00	mg/l
ATEmix (inhalation-vapor)	99,999.00	mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Tris Base	= 5900 mg/kg (Rat)	> 5000 mg/kg (Rat)	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization	No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			
11.2. Information on other hazards				
11.2.1. Endocrine disrupting properties				
Endocrine disrupting properties	No information available.			
11.2.2. Other information				
Other adverse effects	No information available.			
SECTION 12: Ecological in	nformation			
<u>12.1. Toxicity</u>				
Ecotoxicity	The environmental impact of this product has not been fully investigated.			
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.			
12.2. Persistence and degradability	<u> </u>			
Persistence and degradability	No information available.			
12.3. Bioaccumulative potential				
Bioaccumulation				
Chemical name		Partition coefficient		
Tris HCI		-3.6		
12.4. Mobility in soil				
Mobility in soil	No information available.			
12.5. Results of PBT and vPvB assessment				
PBT and vPvB assessment	No information available.			
Chemica	Iname	PBT and vPvB assessment		

Tris Base	The substance is not PBT / vPvB
Tris HCI	The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations. Do not reuse empty containers.

# **SECTION 14: Transport information**

### IATA

ΙΑΤΑ			
14.1	UN number or ID number	Not regulated	
14.2	UN proper shipping name	Not regulated	
14.3		Not regulated	
14.4		Not regulated	
14.5		Not applicable	
14.6	Special precautions for user	Not applicable	
-	pecial Provisions	None	
3		None	
IMDO			
14.1		Not regulated	
		Not regulated	
14.2		Not regulated	
14.3		Not regulated	
14.4		Not regulated	
14.5		Not applicable	
14.6			
S	pecial Provisions	None	
14.7	Maritime transport in bulk	No information available	
acco	rding to IMO instruments		
<u>RID</u>			
14.1	UN number or ID number	Not regulated	
14.2	UN proper shipping name	Not regulated	
14.3	Transport hazard class(es)	Not regulated	
14.4	Packing group	Not regulated	
14.5	Environmental hazards	Not applicable	
14.6	Special precautions for user		
S	pecial Provisions	None	
-			
ADR			
14.1	UN number or ID number	Not regulated	
14.2	UN proper shipping name	Not regulated	
14.3	Transport hazard class(es)	Not regulated	
14.4	Packing group	Not regulated	
14.5	Environmental hazards	Not applicable	

14.6 Special precautions for user<br/>Special ProvisionsNone

### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Not determined
Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
Australian Inventory of Industrial Chemicals

### 15.2. Chemical safety assessment

**Chemical Safety Report** 

No information available

### **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

### Legend

SVHC: Substances of Very High Concern for Authorization:

### Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Revision date 02-Jul-2024

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