# Tris-Glycine Buffer, 5X, No SDS



Section 1

**Product Description** 

Product Name:Tris-Glycine Buffer, 5X, No SDSRecommended Use:Science education applicationsDistributor:Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

#### **Hazard Identification**

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

**GHS Classification:** 

Other Safety Precautions: May cause irritation.

May cause gastrointestinal discomfort. May cause irritation to respiratory tract.

May cause irritation to skin.

Acute Toxicity Oral Contains
Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Vapor

90.6 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

**Acute Toxicity Inhalation Dust/Mist** 

**Contains** 

100 % of the mixture consists of ingredient(s) of unknown toxicity

# Section 3 Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Glycine	56-40-6	9.4
Tris(Hydroxymethyl) Aminomethane	77-86-1	1.5
Water	7732-18-5	0
Hydrogen Chloride	7647-01-0	0
HCl to bring solution to pH 8.3; water to balance.		

## **Section 4**

### First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** After contact with skin, wash immediately with plenty of water.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

# Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Nitrogen oxides

### Section 6

## Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

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. Avoid creating and inhaling spray or mist.

Avoid contact with skin and eyes.

Contain the discharged material. Do not flush spill to drain. Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120).

### Section 7

# Handling and Storage

Handling: Avoid contact with skin and eyes.

Keep container tightly closed in a cool, well-ventilated place. Storage:

Storage Code: Green - general chemical storage

#### Section 8

#### Protection Information

**ACGIH OSHA PEL** 

(TWA) (TWA) (STEL) Chemical Name (STEL) 2 ppm (Ceiling) Hydrogen Chloride N/A N/A 5 ppm (Ceiling)

**Control Parameters** 

**Engineering Measures:** No data available. Good general room ventilation should be sufficient to control airborne

contaminates to safe levels.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eve Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** 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.

Gloves: Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

## Section 9

## Physical Data

Formula: This product is a mixture. Vapor Pressure: No data available

**Molecular Weight:** 

Appearance: Colorless Liquid

Odor: None

Odor Threshold: No data available

**pH:** 8.3

Melting Point: Estimated 0 C **Boiling Point:** = 100 C Flash Point: No data available

Flammable Limits in Air: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available

Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

#### Section 10

#### Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** Nitrogen oxides, Carbon dioxide, Carbon monoxide

**Hazardous Polymerization:** Will not occur

#### Section 11

# Toxicity Data

Routes of Entry N/A, Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): N/A, None Known **Delayed Effects:** No data available

**Acute Toxicity:** 

Water

**Dermal LD50 Chemical Name CAS Number** Oral LD50 Inhalation LC50

Glycine 56-40-6 Oral LD50 Rat

7930 mg/kg Oral LD50 Mouse

4920 mg/kg

7732-18-5 Oral LD50 Rat 90000 mg/kg

Hydrogen Chloride 7647-01-0 Oral LD50 Rabbit INHALATION 900 mg/kg

LC50 Rat 3700

ppm

INHALATION LC50 Mouse 1108

ppm

INHALATION LC50 Rat 45000

MG/M3 **INHALATION** LC50 Rat 8300

MG/M3

Carcinogenicity:

**Chemical Name CAS Number IARC** NTP **OSHA** Hydrogen Chloride 7647-01-0 Not listed Not listed Not listed

**Chronic Effects:** 

Mutagenicity: No evidence of a mutagenic effect.

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:** 

See Section 2, No information available Acute:

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

#### Section 12 **Ecological Data**

Overview: This material is not expected to be harmful to the ecology. Keep out of waterways.

Mobility:

Persistence: Evaporation into atmosphere, dissolved in water.

No data Bioaccumulation: No data Degradability: Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** Water 7732-18-5 No data available

Hydrogen Chloride 7647-01-0 96 HR LC50 GAMBUSIA AFFINIS 282 MG/L [STATIC]

#### Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

#### Section 14 Transport Information

**Ground - DOT Proper Shipping Name:** Air - IATA Proper Shipping Name: Not regulated for transport by US DOT. Not regulated for air transport by IATA.

Section 15	Regulatory Information					
TSCA Status:	All comp	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Hydrogen Chloride	7647-01-0	Hydrochloric acid	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	500 lb TPQ (gas only)	No

# Section 16 Additional Information

Revised: 10/10/2014 Replaces: None Printed: 04-22-2015

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.

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