

# SAFETY DATA SHEET

#### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Tris Glycine SDS Buffer Solution (10x)

PRODUCT NUMBER: T749

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

www.phytotechlab.com

1-800-535-5053 - US Only EMERGENCY PHONE NUMBER:

1-352-323-3500 - International

**RECOMMENDED USE:** For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

**GHS** Classification:

H319 – Eye irritation (Category 2A)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Warning Signal Word:

Hazard Statements: H319 – Causes serious eye irritation.

**Precautionary Statements:** 

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Protein Running Buffer; TG-SDS Buffer

Ingredient	CAS Number	Percent	Hazardous	
Tris-Base	77-86-1	2.83 %	No exposure limits established by OSHA or ACGIH	
Glycine	56-40-6	13.47 %	No exposure limits established by OSHA or ACGIH	
Sodium Dodecyl Sulfate	151-21-3	0.93 %	No exposure limits established by OSHA or ACGIH	
Water	7732-18-5	>80 %	No exposure limits established by OSHA or ACGIH	

#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

**Route of Entry Symptoms First Aid Procedures** 

May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything Ingestion

by mouth to an unconscious person. Get medical attention.

Product No: T749 Page 1 of 5 Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute

tract

cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.** 

Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15

May cause redness, tearing, or

blurred vision.

minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation** 

persists.

Skin Contact Irritating. May cause reddening,

itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation** 

persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved self-

contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon monoxide, carbon dioxide, sodium oxides

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation,

especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.

#### 7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid aerosols. Avoid incompatible substances.

Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

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Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Respiratory protection is not required.

Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.

A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying

respirators is limited.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to Slight Yellow Tint, Clear Liquid

pH: No data available
Solubility: Miscible with Water
Melting Point: No data available
Vapor Density: No data available
Vapor Pressure: No data available

Odor: Odorless

Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range:

No data available

Flammability (solid, gas): No data available

Partition coefficient: n-octanol/water):

Flammable Limits:

No data available

No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup):

Upper (%) – No data available

le Lower (%) – No data available

#### 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur
Conditions to Avoid: Incompatibles

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, sodium oxides

#### 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): No data available

 $LD_{50}$  (Oral-Mouse)(mg/Kg): No data available  $LD_{50}$  (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

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Reproductive Toxicity: No data available

Symptoms Associated with

Overexposure:

Irritation, sneezing, gastrointestinal upset

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions None identified

Aggravated By Exposure:

Routes of Entry: Inhalation, Ingestion

NIOSH/RTECS NO: Not listed

# The toxicological properties of this product have not been thoroughly investigated

# 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 CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

# 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

# 15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No

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Section 313 Ingredients: No Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

# 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
1		0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
1	0	0	

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