

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Tris Acetate EDTA Buffer Solution (50x), pH 8.1-8.5

PRODUCT NUMBER: T769

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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www.phytotechlab.com

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

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: TAE Buffer

Ingredient	CAS Number	Percent	Hazardous	
Tris-Base	77-86-1	22.43 %	No exposure limits established by OSHA or ACGIH	
Acetic Acid, Glacial	64-19-7	5.71 %	OSHA PEL: 10 ppm; ACGIH TLV: 10 ppm	
Ethylenediaminetetraacetic Acid, Free Acid	60-00-4	1.35 %	No exposure limits established by OSHA or ACGIH	
Water	7732-18-5	>70 %	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
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

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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**

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 selfcontained 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 dioxide and carbon monoxide.

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. Avoid breathing dust.

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 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.

Protect from moisture.

Incompatibilities: Strong oxidizing agent, strong bases

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.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Respiratory protection is not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to Slight Yellow Tint, Clear Liquid

pH (Neat): 8.1 – 8.5

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

Odor: May have a slight pungent odor

Odor Threshold: No data available No data available Viscosity:

1.08 Relative Density:

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range:

No data available

No data available Flammability (solid, gas):

Partition coefficient:

No data available

n-octanol/water): Auto-ignition Temperature:

No data available

Decomposition Temperature: No data available Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available

Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

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

Incompatibles Materials: Strong oxidizing agents, strong bases Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): No data available

> No data available LD₅₀ (Oral-Mouse)(mg/Kg): LD₅₀ (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No

> IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with

Overexposure:

Irritation, sneezing, gastrointestinal upset

Specific Target Organ

No data available Single Exposure:

Toxicity:

No data available Repeated Exposure:

Target Organs: None identified **Medical Conditions** None identified

Aggravated By Exposure:

Routes of Entry: Ingestion, inhalation, skin and eye contact

Product No: T769 Page 3 of 5 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. Neutralize with 5% sodium hydroxide or sodium bicarbonate solutions.

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

Section 311/312 Hazard: No SARA Hazards

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

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

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