

# SAFETY DATA SHEET

### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Tris-Base
PRODUCT NUMBER: T838

COMPANY INFO: PhytoTech Labs Inc.

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

1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only.

RESTRICTIONS ON USE: 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: 2-Amino-2-hydroxymethyl-1,3-propanediol

CAS No: 77-86-1 Formula:  $C_4H_{11}NO_3$  Molecular Weight: 121.13 g/mol EC No.: 201-064-4

Ingredient	CAS Number	Percent	Hazardous
Tris-Base	77-86-1	>99 %	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.

<b>Route of Entry</b>	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. <b>Get medical attention.</b>
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. <b>Get medical attention.</b>
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. <b>Get medical attention if irritation persists.</b>

Product No: T838 Page 1 of 5

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

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

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, 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: Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and

remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let product enter drains.

#### 7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Provide adequate ventilation at places where dust is formed.

Wash thoroughly after use.

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

Product is hygroscopic.

Incompatibilities: Strong oxidizers, alkalis, iron, copper, sodium salicylate, sodium nitrate, and

methenamine

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.

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.

Product No: T838 Page 2 of 5

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

pH (1.00 g/L): Under Development (9.0 – 11.0 suspected range)

Solubility: Soluble in water Melting Range: 171-172 °C

Vapor Density: No data available
Vapor Pressure: No data available
Specific Gravity: No data available
Odor: Mostly 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):

No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): >93.3 °C

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 – Solid may be slightly hygroscopic, aqueous

solution are not hygroscopic

Possibility of Hazard Reactions: No data available

Conditions to Avoid: Excessive moisture, excessive heat, dust generation

Incompatibles Materials: Strong oxidizing agents

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

### 11. TOXICOLOGICAL INFORMATION

Toxicity:  $LD_{50}$  (Oral-Rat)(mg/Kg) 5900

 $LD_{50}$  (IPR-Mouse)(mg/Kg) 1800  $LD_{50}$  (Dermal-Rat)(mg/Kg) 1210

Carcinogenicity: NTP: No

IARC: No OSHA Reg: No

Repeated Exposure:

Reproductive Toxicity: No data available

Specific Target Organ Single Exposure:

Toxicity:

Target Organs: No data available

Product No: T838 Page 3 of 5

No data available

No data available

Routes of Entry: Inhalation, Ingestion

NIOSH/RTECS NO: TY2900000

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

### 12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia - > 980 mg/l - 48 h

Toxicity to algae - EC50 - Algae - 397 mg/l - 72 h NOEC - Algae - 100 mg/l - 72 h

Persistence and Degradability: Readily biodegradable (OECD Test Guideline 301F)

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.

### 14. TRANSPORT INFORMATION

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

Hazard Class: N/A
Reportable Quantity: 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: Yes

**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

Massachusetts Right to Know Components: This product is not on the Massachusetts Substance List (MSL).

Product No: T838 Page 4 of 5

**Pennsylvania Right to Know Components:** This product is not listed on the Pennsylvania Code's Hazardous

Substance List (Chapter 323).

New Jersey Right to Know Components: This product is not listed amongst the New Jersey Right to

Know Hazardous Substance Fact Sheets.

California Prop. 65 Components: This product is not known to the State of California to cause cancer or

reproductive toxicity.

### 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

Health Hazard	Flammability	Physical Hazard	Personal Protection
0		0	0
Health Hazard	Fire Hazard	Instability	Special Hazard
0	0	0	

PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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Product No: T838 Page 5 of 5