

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

CHEMTREC (24hr) 1-800-424-9300

# Section 1: Identification

Product Name Tromethamine USP (Tris)

30-4422

Commercial Name Spectris, Tris Buffer, Tris-amino, Tromethane, Trometamol, Trisamine, Trisaminol, Trismat

Product Use Not available
Restrictions On Use Not available

**Company** PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

Section 2: Hazard(s) Identification

OSHA Haz Com: Not available.

CFR 1910.1200

**Product Code** 

Signal Word NON-HAZARDOUS

Hazard Statement(s) Not available.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

PreventionNot availableResponseNot availableStorageNot availableDisposalNot available

# Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Tromethamine USP (Tris)

 % By Weight
 100

 CAS#
 77-86-1

 Molecular Weight
 121.14

 Chemical Formula
 C4H11NO3

**Synonym(s)** Tris(hydroxymethyl)aminomethane; Tris(hydroxymethyl)methylamine; 2-Amino-2-(hydroxymethyl)

-1,3-propanediol; 2-Amino2-(hydroxymethyl)propane-1,3-diol; 2-Amino-2-methylol-1,3-propanediol; Aminotrimethylolmethane; Aminotris(hydroxymethyl) methane; Methyl, 1,1,1-tris(hydroxymethyl)-; Tris

(hydroxymethyl)methanamine

**Mixtures** 

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Tromethamine USP (Tris)	77-86-1	100	Not available	Not available

(Revision Date 1/25) Page 1 of 5



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## Section 4: First-Aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin Contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately

Symptoms/Effects

Acute Not available Delayed Not available

## **Immediate Medical Attention**

Provide general supportive measures and treat symptomatically

# Section 5: Fire-Fighting Measures

## Suitable Extinguishing Media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.

## **Unsuitable Extinguishing Media**

Not available.

## **Products of Combustion**

No unusual fire or explosion hazards noted

## **Firefighters Special Equipment and Precautions**

Wear suitable protective equipment. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.

# Section 6: Accidental Release Measures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Avoid discharge into drains, water courses or onto the ground.

## Section 7: Handling and Storage

Handling: As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

## Section 8: Exposure Controls/Personal Protection

Exposure Limits

Not available.

Engineering Controls

For laboratory operations, use good technique and limit open handling. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

(Revision Date 1/25) Page 2 of 5



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## **Personal Protection**

Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. Skin protection Hand protection: Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Respirators are generally not required for laboratory operations. Chose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards: Wear appropriate thermal protective clothing, when necessary. General hygiene considerations: Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

(Revision Date 1/25) Page 3 of 5



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

# Section 9: Physical and Chemical Properties

White powder. Solid **Appearance** characteristic odor. Odor **Odor Threshold** Not available.

339.8 - 341.6 °F (171 - 172 ° 10.4 (0.1 molar aqueous solution) **Melting Point** pН

339.8 - 341.6 °F (171 - 172 ° 0.0000003 kPa at 25 °C Freezing Point **Vapor Pressure** 

426.2 - 428 °F (219 - 220 °C) Not available. **Boiling Point/Range Vapor Density** Not available. Not available. **Decomposition temperature Viscosity Partition Coefficient:** Not available. **Evaporation Rate** Not available.

n-octanol/water

Not available Not available. Flash Point Autoignition temperature

**Flammability** Not available. Flammability or Explosive Limits:

Not available.

Not available. Upper

Lower

Solubility(ies) Freely Soluble in water, Ethylene glycol: Soluble. Methanol: Soluble. Ethanol: Soluble. Acetone:

Soluble. Ethyl acetate: Soluble. Chloroform: Soluble. Dimethylformamide: Soluble.

Molecular formula C4H11NO3 Molecular weight 121.14 Other

Section 10: Stability and Reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and

transport

**Chemical Stability** Material is stable under normal conditions.

No dangerous reaction known under conditions of normal use. **Hazardous Polymerization** 

**Conditions to Avoid** Contact with incompatible materials Strong oxidizing agents. Strong bases **Incompatible Materials** 

**Hazardous Decomposition Products** Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx

Section 11: Toxicological Information

**RTECS** TY2900000

**Acute Toxicity** 

Oral: LD50 Rat 5900 mg/kg Acute Dermal: LD50 Rat > 5000 mg/kg

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Not available

Respiratory or Skin Sensitization

Not available

**Germ Cell Mutagenicity** 

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available

**Routes of Entry** 

Not available.

(Revision Date 1/25) Page 4 of 5



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## Symptoms Related to Exposure

Nausea. Difficulty breathing. Confusion. Lightheadedness. Headache. Numbness of the face and extremities. Muscle spasms.

Tremo

#### **Potential Health Effects**

Not available

Target Organ(s) Not available.

# Section 12: Ecological Information

## **Ecotoxicity**

he product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## Persistance and Degradability

Not available.

#### **Bioaccumulative Potential**

Not available

## **Mobility in Soil**

Not available

#### Other Adverse Effects

Not available.

## Section 13: Disposal Considerations

## **Waste Disposal**

Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste

### **Disposal of Container**

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

## Other Considerations

Contaminated packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

## Section 14: Transport Information

# **DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

# Section 15: Regulatory Information

#### Regulations

TSCA 8(b) inventory: Tromethamine California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found. OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 201-064-4). Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (PICCS). Australia: Listed on AICS.

# Other

WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC). DSCL (EEC): R36/37/38- Irritating to eyes, respiratory system and skin.; S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves.

## **Section 16: Other Information**

Not available.

(Revision Date 1/25) Page 5 of 5