



## Section 1 - Chemical Product and Company Identification

**Product Name** Tris Buffer for cell culture, 99.9%, Endotoxin (BET) 0.05 EU/mg  
**Product Code** 12695  
**CAS No** 77-86-1  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

| CAS#    | Chemical Name | %      | EINECS#   |
|---------|---------------|--------|-----------|
| 77-86-1 | TrisBuffer    | <=100% | 201-064-4 |

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

#### Potential Health Effects

**Eye:** Causes eye irritation.  
**Skin:** Causes skin irritation. May be harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.  
**Inhalation:** Causes respiratory tract irritation. May be harmful if inhaled.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
**Ingestion:** Get medical aid. Wash mouth out with water.  
**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.  
**Notes to Physician:** Treat symptomatically and supportively.

**Antidote:**

## Section 5 - Fire Fighting Measures



**Product Code** 12695

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

## Section 8 - Exposure Control / Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** CAS# 77-86-1

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder

**Color:** white

**Molecular Formula:** C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>

**Molecular Weight:** 121.14

## Section 10 - Stability and Reactivity



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**Chemical Stability:** Stable. Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:** Incompatible materials, exposure to moist air or water.

**Incompatibilities with**

**Other Materials :** Strong oxidizing agents, strong oxidizing agents, bases, aluminum, brass, copper.

**Hazardous Decomposition**

**Products :** Nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization :** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:** CAS# 77-86-1: TY2900000

**LD50/LC50:** RTECS: CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg;

**Carcinogenicity:** Tris(hydroxymethyl)aminomethane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

**Other:** Do not empty into drains.

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations

## Section 14 - Transport Information

**IATA**

Not regulated.

**IMO**

Not regulated.

**RID/ADR Shipping Name:**

Not regulated. **Hazard Class:**

**UN Number: Packing Group:**

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.