

## **MATERIAL SAFETY DATA SHEET**

### **TRIS HYDROCHLORIDE (For Biochemistry) MSDS CAS : 1185-53-1**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name :** TRIS HYDROCHLORIDE

**CAS#:** 1185-53-1

**C.I. No.:** Not available.

**Synonym :** Not available.

**Chemical Name:** Not available.

**Chemical Formula:** C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>.HCl

**Brand:** OXFORD

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification:**      **OXFORD LAB FINE CHEM LLP**  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

| Name               | CAS #     | % by Weight |
|--------------------|-----------|-------------|
| TRIS HYDROCHLORIDE | 1185-53-1 | 100%        |

## Section 3: Hazards Identification

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Not classified.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Not classified.

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures

#### **Inhalation**

Assure fresh air breathing. Allow the victim to rest.

#### **Skin contact**

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

#### **Eye contact**

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

#### **Ingestion :**

Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

### Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Not expected to present a significant hazard under anticipated conditions of normal use.

### Indication of any immediate medical attention and special treatment needed

**General information:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire and Explosion Data

### Extinguishing media

#### Extinguishing media

##### Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

##### Unsuitable extinguishing media

: Do not use a heavy water stream.

##### Surrounding fires

: Use water spray or fog for cooling exposed containers.

#### Special hazards arising from the substance or mixture

##### Hazardous combustion products

: Under fire conditions, hazardous fumes will be present.

#### Advice for fire-fighters

##### Protection against fire

: Do not enter fire area without proper protective equipment,  
Including respiratory protection.

##### Special procedures

: Exercise caution when fighting any chemical fire. Avoid (reject)  
fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

##### For emergency responders

: Equip cleanup crew with proper protection.  
Ventilate area.

##### For non-emergency personnel

: Evacuate unnecessary personnel.

#### Environmental precautions

##### Environmental precautions

: Prevent entry to sewers and public waters. Notify authorities if  
product enters sewers or public waters.

#### Methods and materials for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.

Store away from other materials.

## Section 7: Handling and Storage

### Precautions for safe handling

|                               |                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Handling                      | : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. |
| Technical protective measures | : Provide good ventilation in process area to prevent formation of Vapor.                                       |

### Conditions for safe storage, including any incompatibilities

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| Storage             | : Keep only in the original container in a cool, well ventilated place. Keep container closed. |
| Storage - away from | : Strong bases. Strong acids. Sources of ignition. Direct sunlight.                            |

### Specific end uses

|                     |         |
|---------------------|---------|
| Specific end use(s) | : None. |
|---------------------|---------|

## Section 8: Exposure Controls/Personal Protection

|                          |                                           |
|--------------------------|-------------------------------------------|
| Personal protection      | : Avoid all unnecessary exposure.         |
| • Respiratory protection | : Wear approved mask.                     |
| • Hand protection        | : Wear protective gloves.                 |
| • Eye protection         | : Chemical goggles or safety glasses.     |
| • Others                 | : When using, do not eat, drink or smoke. |

### Control parameters

|                              |                      |
|------------------------------|----------------------|
| Occupational Exposure Limits | : No data available. |
|------------------------------|----------------------|

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

|                         |                      |
|-------------------------|----------------------|
| Physical state at 20 °C | : Solid.             |
| Color                   | : White crystalline  |
| Odor                    | : N/A                |
| Odor threshold          | : No data available. |
| pH value                | : Not applicable.    |
| Melting point [°C]      | : 150 - 152 °C       |

## Section 9: Physical and Chemical Properties (Continued)

|                                        |                      |
|----------------------------------------|----------------------|
| Decomposition point [°C]               | : N/A                |
| Critical temperature [°C]              | : N/A                |
| Auto-ignition temperature [°C]         | : N/A                |
| Flammability (solid, gas)              | : N/A                |
| Flash point [°C]                       | : N/A                |
| Boiling point [°C]                     | : N/A                |
| Initial boiling point [°C]             | : N/A                |
| Final boiling point [°C]               | : N/A                |
| Evaporation rate                       | : N/A                |
| Vapour pressure [20°C]                 | : N/A                |
| Vapour pressure mm/Hg                  | : N/A                |
| Vapour density                         | : N/A                |
| Density [g/cm <sup>3</sup> ]           | : N/A                |
| Relative density, gas (air=1)          | : N/A                |
| Relative density, liquid (water=1)     | : N/A                |
| Solubility in water [% weight]         | : Soluble in water   |
| Solubility in water                    | : N/A                |
| Log Pow octanol / water at 20°C        | : No data available. |
| Solubility                             | : 3.5 - 5.0          |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : N/A                |
| Molecular Weight                       | : 157-60             |
| <b><u>Other information</u></b>        |                      |
| Explosive properties                   | : N/A                |
| Explosion limits - upper [%]           | : N/A                |
| Explosion limits - lower [%]           | : N/A                |
| Oxidizing properties                   | : No data available. |

## Section 10: Stability and Reactivity Data

### **Reactivity**

Reactivity : Not established.

### **Chemical stability**

Chemical stability : Stable under recommended storage conditions.

## Section 10: Stability and Reactivity Data (Continued)

### Possibility of hazardous reactions

Hazardous reactions : Not established.

### Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

### Incompatible materials

Materials to avoid : Strong acids. Strong bases.

### Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| • Inhalation           | : Based on available data, the classification criteria are not met. |
| • Dermal               | : Based on available data, the classification criteria are not met. |
| • Ingestion            | : Based on available data, the classification criteria are not met. |
| Corrosion              | : Based on available data, the classification criteria are not met. |
| Irritation             | : Based on available data, the classification criteria are not met. |
| Sensitization          | : Based on available data, the classification criteria are not met. |
| Mutagenicity           | : Based on available data, the classification criteria are not met. |
| Carcinogenicity        | : Based on available data, the classification criteria are not met. |
| Toxic for reproduction | : Based on available data, the classification criteria are not met. |
| STOT-single exposure   | : Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met. |
| Aspiration hazard      | : Based on available data, the classification criteria are not met. |

## Section 12: Ecological Information

### Toxicity

Toxicity information : Not established.

## Section 12: Ecological Information (Continued)

### Persistence – degradability

Persistence - degradability : Biodegradable.

### Bio accumulative potential

Bio accumulative potential : Not established.

### Mobility in soil

Mobility in soil : Not established.

### Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### Other adverse effects

Environmental precautions: Avoid release to the environment.

## Section 13: Disposal Considerations

### Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

## Section 14: Transport Information

### Land transport (ADR-RID)

General information : Not regulated.

### Sea transport (IMDG)

General information : Not regulated.

### Air transport (ICAO-IATA)

General information : Not regulated.

## Section 15: Other Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**Safety, health and environmental:** Ensure all national/local regulations are observed.

**Regulations/legislation specific for  
The substance or mixture**

**REACH Restrictions - Annex XVII:** The components of this product are not subject to restrictions.

**REACH Authorization - Annex XIV:** The components of this product are not subject to authorization.

### Chemical Safety Assessment

**Chemical Safety Assessment:** It has not been carried out.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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