

MATERIAL SAFETY DATA SHEET**Product Name:** Tris hydrochloride**CAS No.:** 1185-53-1**Version:** 0**1. Identification**

Product Code : 91517
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2. Hazards Identification

Hazard classification : Not classified
Labels elements
Hazard symbol : No symbol
Signal word : No Signal word
Hazard statement : Not applicable
Precautionary statement : Not applicable
Supplemental Hazard Statements : None

3. Composition/information on ingredients

Ingredient : TRIS hydrochloride
TRIS HCl
Tris(hydroxymethyl)aminomethanehydrochloride
CAS No. : 1185-53-1
Percent : NLT 99.0%
Formula : C₄H₁₁NO₃ · HCl
Molecular Weight : 157.60 g/mol

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- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- Skin contact** : Wash off with soap and plenty of water.
- Eye contact** : Flush eyes with water as a precaution.
- Swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water.
- Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed Treatment** : No data available

5. Fire fighting measures**Extinguishing media**

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture** : Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas
- Advice for firefighters** : Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Avoid dust formation. Avoid breathing vapours, mist or gas.
- Environmental precautions** : Do not let product enter drains.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

- Precautions for safe handling** : Provide appropriate exhaust ventilation at places where dust is formed.

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Conditions for safe storage, including any incompatibilities : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic

8. Exposure Controls / Personal Protection

Exposure limit : No data available
Appropriate engineering controls : General industrial hygiene practice.
Personal protective equipment
Respiratory protection : No data available
Hand protection : Protective gloves
Eye protection : Safety glasses. A face-shield, if the situation requires.
Skin and Body Protection : Protective clothing. Protective boots, if the situation requires.

9. Physical and Chemical Properties

Appearance : White crystalline powder
Odor : No data available
pH : No data available
Melting point/freezing point : 150 - 152 °C
Initial boiling point and boiling range : No data available
Flash Point : No data available
Vapor pressure : No data available
Vapor density : No data available
Relative density : No data available
Solubility in water : No data available
Solubility (other) : No data available

10. Stability and Reactivity

Reactivity : No data available
Chemical stability : Stable under recommended storage conditions.
Possibility of hazardous reactions : No data available
Conditions to avoid : Exposure to moisture
Incompatible materials : Bases, Oxidizing agents
Hazardous decomposition products : Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

MATERIAL SAFETY DATA SHEET**Product Name:** Tris hydrochloride**CAS No.:** 1185-53-1**Version:** 0**11. Toxicological Information****Information on toxicological effects**

Acute toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity		
IARC	:	No data available
NTP	:	No data available
OSHA	:	No data available
Reproductive toxicity	:	No data available
Route of Exposure	:	No data available
Signs and Symptoms of Exposure	:	No data available

12. Ecological Information

Toxicity	:	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 instructions	:	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	:	Dispose of as unused product.

MATERIAL SAFETY DATA SHEET**Product Name:** Tris hydrochloride**CAS No.:** 1185-53-1**Version:** 0**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not dangerous goods		
IMDG			Not dangerous goods		
IATA			Not dangerous goods		

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :**01/02/2014**Version :** 0

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