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# **MATERIAL SAFETY DATA SHEET**

# **TRIS Hydrochloride**

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

# 1.1 Product identifiers:

Product name: TRIS Hydrochloride Product number: 0001185531

**Brand: Discovery** 

Reach No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require registration or the registration is envisaged for a later

Registration deadline. Cas No.: 1185-53-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: laboratory chemicals, manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company: Discovery Fine Chemicals Ltd

Unit 4A, Old Forge Road, Ferndown Ind. Estate,

Wimborne, Dorset, BH21 7RR.

United Kingdom +44 (0)1202 874517 +44 (0)845 0944 385

E-mail: <u>discovery@discofinechem.com</u> **1.4 Emergency telephone**: +44 (0)7912 646956

## **SECTION 2. HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Not a hazardous substance or mixture according to regulation (EC) No.1272/2008.

#### 2.2 Label elements

Telephone:

Fax:

Labelling according Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Not a hazardous substance or mixture according to regulation (EC) No.1272/2008.

#### 2.3 Other hazards

None

#### **Precautionary Statements**

P261 Avoid breathing dust

P281 Use personal protective equipment as required.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

TRIS Hydrochloride

Formula: C4H11NO3 · HCl, Molecular Weight: 157.60 g/mol

Cas No: 1185-53-1 EC No: 214-684-5

No components need to be disclosed according to the applicable regulations.

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

If inhaled - If breathed in, move person into fresh air.

**In case of skin contact –** Wash off with soap and plenty of water.

In case of eye contact - Rinse eyes with plenty of water and remove contact lenses.

If swallowed

Drink water. Consult doctor if feeling unwell.

**4.2 Most important symptoms and effects, both acute and delayed –** the most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11.

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

no data available

#### **5. FIREFIGHTING MEASURES**

# 5.1 Extinguishing media

**Suitable extinguishing media –** use water spray, alcohol resistant foam, dry chemical or carbon dioxide (CO2) **Unsuitable extinguishing media –** for this substance no limitations of extinguishing agents are given.

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

Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride gas. Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3 Advice for firefighters –** wearing self-contained breathing apparatus.

**5.4 Further information -** no data available.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation. Avoid breathing vapours or mist or gas.

- **6.2 Environmental precautions –** Do not let product enter drain.
- 6.3 Methods and materials for containment and cleaning up sweep up and shovel. Keep in closed containers.
- **6.4 Reference to other sections -** For disposal see section 13.

#### 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

See section 2.2

# 7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s) - no data available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

**Appropriate engineering controls -** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

Eye/face protection - Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection -** Handle with gloves. Gloves must be inspected prior to use.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril®

Splash protection Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril®

**Body Protection –** Choose appropriate body protection. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** – respiratory protection is not required. Dust masks type P1 (EU EN 143) may be used for a higher level of protection. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
- a) Appearance Form: Powder, Colour: White
- b) Odour no data available
- c) Odour Threshold no data available
- d) Melting point/freezing point Melting point: ca.150.7 °C at ca.1,013 hPa OECD Test Guideline 102
- e) Initial boiling point and boiling range 225 295 °C at ca.1,013 hPa OECD Test Guideline 103 Decomposition
- f) Flammability (solid, gas) no data available
- g) Upper/lower flammability or explosive limits no data available
- h) Flash point not applicable
- i) Autoignition temperature no data available
- j) Decomposition temperature no data available
- k) pH no data available
- I) Viscosity viscosity, kinematic: no data available
  - viscosity dynamic: no data available
- m) Water solubility no data available
- n) Partition coefficient: no data available
- o) Vapour pressure no data available
- p) Density no data available
  - Relative density no data available
- q) Relative vapour density no data available
- r) Particle characteristics no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available
- 9.2 Other safety information no data available

# 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Risk of dust explosion.

# 10.2 Chemical stability

Stable under standard storage conditions.

Hygroscopic

# 10.3 Possibility of hazardous reactions

Violent reactions possible with: Oxidizing agents

#### 10.4 Conditions to avoid

Exposure to moisture.

#### 10.5 Incompatible materials

No data available

#### 10.6 Hazardous decomposition products

In the event of fire see section 5

# 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Acute toxicity

Oral – rat - >5,000 mg/kg Inhalation: No data available Dermal – rat - >5,000 mg/kg

Skin corrosion/irritation - no data available

Serious eye damage/eye irritation

Eyes - no data available

#### Respiratory or skin sensitization

no data available.

## Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

#### **Aspiration hazard**

No data available

#### 11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - > 1,000 mg/kg To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 12. ECOLOGICAL INFORMATION

**12.1 Toxicity –** Static test LC50 - Leuciscus idus (Golden orfe) - 460 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates - static test EC50 - Daphnia magna (Water flea) - > 117 mg/l – 48h (OECD Test Guideline 202)

Toxicity to bacteria - static test EC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

- 12.2 Persistence and degradability no data available
- 12.3 Bio-accumulative potential no data available
- 12.4 Mobility in soil no data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT),or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### **Product**

Waste material may be offered to a licensed disposal company. contaminated packaging may be disposed of as unused product.

# 14. TRANSPORT INFORMATION

#### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

# 14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

# 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -14.4 Packaging group ADR/RID: - IMDG: - IATA: -14.5 Environmental hazards

ADR/RID: no IMDG Marine Pollutant: no IATA: no

#### 14.6 Special precautions for user

#### **Further Information**

Not classified as dangerous in the meaning of transport regulations

#### 15. REGULATORY INFORMATION

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

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

#### 16. OTHER INFORMATION

#### **Precautionary Statements**

P261 Avoid breathing dust

P281 Use personal protective equipment as required.

#### **Further information**

#### **WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product.

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#### **APPENDIX**

ABBREVIATIONS FULL TEXT

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ALARP As low as is reasonably practicable

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulations

COSHH Control of Substances Hazardous to Health EC Number European Community Number

EC50 Effective Concentration 50%

ECHA European Chemicals Agency

**ELINCS European List of Notified Chemical Substances** 

EINECS European Inventory of Existing Commercial Chemical Substances GHS Globally Harmonised System HSE

Health & Safety Executive UK

IATA International Air Transport Association

IM Intramuscular

IMDG The International Maritime Dangerous Goods Code

IP Intraperitoneal

IV Intravascular

LD50 Lethal Dose 50%

LOEC Lowest Observable Effective Concentration

LTEL Long Term Exposure Limit

NOEC No Observable Effective Concentration

OECD Organisation for Economic Cooperations and Development

OSHA European Agency for Safety and Health at work

PBT Persistent Bioaccumulative and Toxic substance

PPE Personal Protective Equipment

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations Concerning the International Carriage of Dangerous Goods by Rail

SC Subcutaneous

SDS Safety Data Sheet

SIEF Substance Information Exchange Forum

STEL Short Term Exposure Limit

STOT (RE) Specific Target Organ Toxicity - repeated exposure

STOT (SE) Specific Target Organ Toxicity - single exposure

SVHC Substance of Very High Concern

VOC Volatile Organic Compounds

vPvB Very Persistent and Very Bioaccumulative

WEL Workplace Exposure Limits