

# Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 22.02.2022 Revision: 22.02.2022 Version number 9.02 (replaces version 9.01)

SECTION 1: Identification of the substance/mixtu undertaking	re and of the company/
· 1.1 Product identifier	
<ul> <li>Trade name: <u>Tris Hydrochloride</u></li> </ul>	
<ul> <li>Article number: A1087</li> <li>CAS Number: 1185-53-1</li> <li>EC number: 214-684-5</li> <li>Application of the substance / the mixture Laboratory chemicals Molecular biology</li> </ul>	
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: AppliChem GmbH Ottoweg 4 D-64291 Darmstadt</li> </ul>	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
<ul> <li>Further information obtainable from: Dept. Compliance</li> <li>1.4 Emergency telephone number: +49(0)6151 93570 (Inside norm)</li> </ul>	al buisness hours)
SECTION 2: Hazards identification	
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>The substance is not classified, according to the CLP regulation.</li> </ul>	

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

· 3.1 Substances

- · CAS No. Description
  - 1185-53-1 Tris Hydrochloride

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Identification number(s)

· EC number: 214-684-5

### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water. If skin irritation continues, consult a doctor.

• After eye contact:

Rinse opened eye for several minutes under running water.

- Seek medical treatment.
- After swallowing: Rinse out mouth.

If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media • Suitable extinguishing agents: Water, CO2, foam, powder. Use fire extinguishing methods suitable to surrounding conditions. · 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Phosgene gas Non-combustible. 5.3 Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. **SECTION 6: Accidental release measures**
- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
   Do not inhale dust.
   Ensure adequate ventilation
   6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
   6.3 Methods and material for containment and cleaning up: Pick up mechanically.
   Avoid formation of dust.

Clean up affected area.

• **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

(Contd. on page 3)

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See Section 13 for disposal information.

(Contd. of page 2)

### **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling Provide suction extractors if dust is formed.
- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container sealed.
- · Recommended storage temperature: Room Temperature
- · Storage class: 13
- · 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- of require requirering of the meriles. Not required

DNELs		
Oral	Long-term - systemic effects, general population	10.8 mg/kg
Dermal	Long-term - systemic effects, worker	216.6 mg/kg
	Long term - systemic effects, general population	108.3 mg/kg
Inhalative	Long-term - systemic effects, worker	152.8 mg/m3
	Long-term - systemic effects, general population	37.7 mg/m3
Additiona	al information: The lists valid during the making w	vere used as basis.
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has to be	t break through time has to be found out by the robserved.	
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Trade name: Tris Hydrochloride

· Body protection: Protective work clothing

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flammable gases in contact with water Void		
		Void
		(Contd. on page

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Trade name: Tris Hydrochloride

		(Contd. of page 4)
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
<ul> <li>Desensitised explosives</li> </ul>	Void	

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- · 10.4 Conditions to avoid
- Moisture
- Heating.
- · 10.5 Incompatible materials:
- Bases
- oxidizing agent
- copper aluminium

• 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

### **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:
- Quantitative data on the toxicological effect of this product are not available.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- After inhalation: No irritant effect.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity 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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- Type of test Effective concentration Method Assessment
- EC50/72 h 397 mg/l (Algae)
- EC50/48 h 117 mg/l (Aquatic Invertebrata)
- LC50/96 h 460 mg/l (fish)
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential -3.6 log Pow
- 12.4 Mobility in soil No further relevant information available.

(Contd. on page 6)

### Safety data sheet according to 1907/2006/EC, Article 31

Trade name: Tris Hydrochloride

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 4	1. Transport	information
SLUTION	4. mansport	mormation

<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR, ADN, IMDG, IATA · Class	Void
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
<ul> <li>14.7 Maritime transport in bulk according IMO instruments</li> </ul>	g to Not applicable.
· UN "Model Regulation":	Void

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.

(Contd. on page 7)

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(Contd. of page 6)

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• 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Dept. Compliance

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.

#### Annex: Exposure scenario 1

- Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures • Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- Physical parameters
- · Physical state Solid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product
- Not applicable.
- Risk management measures
- Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- Environmental protection measures
- Air No special measures required.
- Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

#### Annex: Exposure scenario 2

- $\cdot$  Short title of the exposure scenario Use as a reactive processing agent
- Sector of Use
- SU4 Manufacture of food products

(Contd. on page 8)

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Trade name: Tris Hydrochloride

	(Contri of nor
	Contd. of page anufacture of bulk, large scale chemicals (including petroleum products)
	anufacture of fine chemicals
	Scientific research and development
	tion of the activities / processes covered in the Exposure Scenario
	tion 1 of the annex to the Safety Data Sheet.
	ons of use
	n and frequency 5 workdays/week.
	l parameters
	I state Solid
	tration of the substance in the mixture Raw material.
	nount per time or activity ≤ 1 tons per day
	perational conditions
	perational conditions affecting environmental exposure No special measures required.
	perational conditions affecting consumer exposure Not required.
	perational conditions affecting consumer exposure during the use of the product
Not app	
· Risk ma	inagement measures
Worker	protection
· Organis	ational protective measures No special measures required.
· Technic	al protective measures No special measures required.
Persona	al protective measures No special measures required.
Measur	es for consumer protection No special measures required.
Environ	mental protection measures
Air No s	pecial measures required.
Water N	o special measures required.
Disposa	al measures Ensure that waste is collected and contained.
Disposa	al procedures Dispose of product residues with household waste.
Waste t	ype Partially emptied and uncleaned packaging
Exposu	re estimation
Consun	ner Not relevant for this Exposure Scenario.
Guidan	ce for downstream users No further relevant information available.

#### Annex: Exposure scenario 3

- Short title of the exposure scenario Use in laboratories
- · Sector of Use SU24 Scientific research and development
- **Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- Physical parameters
- · Physical state Solid
- · Concentration of the substance in the mixture Raw material.
- · Used amount per time or activity Smaller than 100 g per application.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting worker exposure Indoor application.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- · Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.

(Contd. on page 9)

## Environmental protection measures

- Air No special measures required.
- Water No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- $\cdot$  Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- **Consumer** Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

(Contd. of page 8)

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