

# Safety data sheet

Page 1/7

according to 1907/2006/EC, Article 31

Printing date 15.03.2022 Revision: 15.03.2022 Version number 3.01 (replaces version 3.00)

SECTION 1: Iden undertaking	tification of the subs	tance/mixture and of the company/
· 1.1 Product identifier		
• Trade name: tetracycli	ne hydrochloride	
<ul> <li>Article number: A2228</li> <li>CAS Number: 64-75-5</li> <li>EC number: 200-593-8</li> <li>Application of the sub Laboratory chemicals For lab use only. Not for</li> </ul>		s.
• <b>Manufacturer/Supplier</b> AppliChem GmbH Ottoweg 4 D-64291 Darmstadt		Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
	otainable from: Dept. Compli one number: +49(0)6151 935	ance 70 (Inside normal buisness hours)
SECTION 2: Hazar	ds identification	
Skin Irrit. 2 H315 Eye Irrit. 2 H319	ng to Regulation (EC) No 12 Causes skin irritation. Causes serious eye irritatio 2 Suspected of damaging th	
STOT SE 3 H335	children. May cause respiratory irrita	tion.
· 2.2 Label elements		
· Labelling according to	Regulation (EC) No 1272/2	

· Hazard pictograms



· Signal word Warning

(Contd. on page 2)

Page 2/7

#### Trade name: tetracycline hydrochloride

	(Contd. of page 1)
<ul> <li>Hazard sta</li> </ul>	tements
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d-H36	2 Suspected of damaging the unborn child. May cause harm to breast-fed children.
H335	May cause respiratory irritation.
· Precaution	ary statements
P260	Do not breathe dusts or mists.
P263	Avoid contact during pregnancy and while nursing.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351	I+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
· 2.3 Other h	nazards
· Results of	PBT and vPvB assessment
· PBT: Not a	pplicable.
vPvB: Not	

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

- · 3.1 Substances
- · CAS No. Description
- 64-75-5 tetracycline hydrochloride
- · Identification number(s)
- EC number: 200-593-8

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

- · 4.1 Description of first aid measures
- · General information: Seek medical treatment.
- After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Call a doctor immediately.
- · After swallowing: Seek medical treatment.
- 4.2 Most important symptoms and effects, both acute and delayed Nausea
- Gastric or intestinal disorders
- **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: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Nitrogen oxides (NOx)
   Carbon monoxide and carbon dioxide Hydrogen chloride (HCI)
- Phosgene gas

#### Non-combustible.

(Contd. on page 3)

- 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. Avoid substance contact. 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. Ensure adequate ventilation. 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. See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Any unavoidable deposit of dust must be regularly removed. · 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: Provide acid-resistant floor.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Protect from exposure to the light.
- Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

- · 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
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Required when dusts are generated.

· Recommended filter device for short term use: Filter P3

(Contd. of page 2)

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0.11 mm Value for the permeation: Level  $\geq$  480 min

• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0.11 mm Value for the permeation: Level  $\geq$  480 min

Eye/face protection



Tightly sealed goggles

· Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

# **SECTION 9: Physical and chemical properties**

• 9.1 Information on basic physical and che	mical properties	
General Information		
· Physical state	Solid	
· Colour:	Yellow	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	220-223 °C	
Boiling point or initial boiling point and bo	biling	
range	Undetermined.	
· Flammability	Product is not flammable.	
Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· pH	1.8-2.8 (1%)	
· Viscosity:		
Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
<ul> <li>Partition coefficient n-octanol/water (log v</li> </ul>	alue) Not determined.	
· Vapour pressure:	Not applicable.	
		(Contd. on page 5)

(Contd. of page 3)

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Density and/or relative density	
Density at 20 °C:	0.72 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Crystalline powder
Important information on protection of he	
and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
classes Explosives Elammable cases	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	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
- heating

Moisture

light

- 10.5 Incompatible materials: strong oxidants
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- · Additional information: light sensitive

(Contd. on page 6)

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# Trade name: tetracycline hydrochloride

(Contd. of page 5)

SECTION 11: Toxi	cological info	ormation		
· 11.1 Information on ha	azard classes a	s defined ir	Regulation (EC)	No 1272/2008
Acute toxicity		- 41		
<ul> <li>LD/LC50 values relevand Quantitative data on the</li> </ul>			roduct are not ava	ilabla
		Value	Species	
· Components Oral LD50 6,443 mg/k	Type	value	Species	
· Skin corrosion/irritatio	• • •	irritation		
· Serious eye damage/ii			irritation	
• After inhalation: Irritan				
· Reproductive toxicity				
Suspected of damaging				ed children.
<ul> <li>STOT-single exposure</li> <li>11.2 Information on ot</li> </ul>		piratory irrita	luon.	
• Endocrine disrupting		stance is not	listed.	
. 0				
SECTION 12: Ecol	ogical inform	nation		
· 12.1 Toxicity				
Aquatic toxicity: No fu	rther relevant inf	formation av	ailable.	
Type of test Effective	concentration	Method	Assessment	
LC50/96 h 220 mg/l (fis				
12.2 Porsistance and		o further rela	want information a	available
12.2 Persistence and a	degradability No			
· 12.3 Bioaccumulative	degradability No potential No fur	rther relevar	t information avail	
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<b>SECTION 14: Transport informa</b>	tion
14.1 UN number or ID number ADR, IMDG, IATA	Void
14.2 UN proper shipping name ADR, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk accordi IMO instruments	ing 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.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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) 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

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

GB