Tetracycline hydrochloride ≥900 µg/mg, CELLPURE®

article number: HP63
Version: GHS 1.1 en
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Version: (GHS 1.0)

date of compilation: 2017-01-09
Revision: 2017-01-27

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Identification of the substance: Tetracycline hydrochloride

Article number: HP63
Registration number (REACH): This information is not available.
EC number: 200-593-8
CAS number: 64-75-5

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

Identified uses: laboratory chemical

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
D-76185 Karlsruhe
Germany

Telephone: +49 (0) 721 - 56 06 0
Telefax: +49 (0) 721 - 56 06 149
e-mail: sicherheit@carlroth.de
Website: www.carlroth.de

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

e-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

Emergency information service: Poison Centre Munich: +49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

Signal word: not required
There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Tetracycline hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC number</td>
<td>200-593-8</td>
</tr>
<tr>
<td>CAS number</td>
<td>64-75-5</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C₂₂H₂₅ClN₂O₈</td>
</tr>
<tr>
<td>Molar mass</td>
<td>480.9 g/mol</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes
Take off contaminated clothing.

Following inhalation
Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact
Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact
Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion
Rinse mouth. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms and effects are not known to date

4.3 Indication of any immediate medical attention and special treatment needed
none
SECTION 5: Firefighting measures

5.1 Extinguishing media
   Suitable extinguishing media
   Co-ordinate fire-fighting measures to the fire surroundings
   water spray, foam, dry extinguishing powder, carbon dioxide (CO2)
   Unsuitable extinguishing media
   water jet

5.2 Special hazards arising from the substance or mixture
   Combustible.
   Hazardous combustion products
   In case of fire may be liberated: nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2),
   hydrogen chloride (HCl)

5.3 Advice for firefighters
   Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel
   No special measures are necessary.

6.2 Environmental precautions
   Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up
   Advices on how to contain a spill
   Covering of drains.
   Advices on how to clean up a spill
   Take up mechanically.
   Other information relating to spills and releases
   Place in appropriate containers for disposal.

6.4 Reference to other sections
   Hazardous combustion products: see section 5. Personal protective equipment: see section 8.
   Incompatible materials: see section 10. Disposal considerations: see section 13.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling
Provide adequate ventilation.

Advice on general occupational hygiene
Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities
Store in a dry place. Keep container tightly closed. Keep in a cool place.

Incompatible substances or mixtures
Observe hints for combined storage.

Consideration of other advice
• Ventilation requirements
  Use local and general ventilation.
• Specific designs for storage rooms or vessels
  Recommended storage temperature: -20 °C.

7.3 Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
National limit values

Occupational exposure limit values (Workplace Exposure Limits)
Data are not available.

8.2 Exposure controls
Individual protection measures (personal protective equipment)

Eye/face protection
Use safety goggles with side protection.

Skin protection
• hand protection
  Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.
• type of material
  NBR (Nitrile rubber)
• material thickness
  >0,11 mm
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- **breakthrough times of the glove material**
  >480 minutes (permeation: level 6)

- **other protection measures**
  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

**Respiratory protection**
Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

**Environmental exposure controls**
Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Appearance**
- Physical state: solid
- Colour: yellow
- Odour: odourless
- Odour threshold: No data available

**Other physical and chemical parameters**
- **pH (value)**: 2.5 (4.8 \(\text{g/l}\), 20 °C)
- **Melting point/freezing point**: 215 - 220 °C
- **Initial boiling point and boiling range**: This information is not available.
- **Flash point**: not applicable
- **Evaporation rate**: no data available
- **Flammability (solid, gas)**: Non-flammable

**Explosive limits**
- **lower explosion limit (LEL)**: this information is not available
- **upper explosion limit (UEL)**: this information is not available
- **Explosion limits of dust clouds**: these information are not available
- **Vapour pressure**: This information is not available.
- **Density**: This information is not available.
- **Vapour density**: This information is not available.
- **Relative density**: Information on this property is not available.
- **Solubility(ies)**
  - **Water solubility**: 20 \(\text{g/l}\) at 20 °C
The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Violent reaction with: Strong oxidiser
Direct light irradiation. Protect from moisture.

Hazardous combustion products: see section 5.
Shall not be classified as acutely toxic.
Shall not be classified as corrosive/irritant to skin.
Shall not be classified as seriously damaging to the eye or eye irritant.

SECTION 10: Stability and reactivity

10.1 Reactivity
The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2 Chemical stability
The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions
Violent reaction with: Strong oxidiser

10.4 Conditions to avoid
Direct light irradiation. Protect from moisture.

10.5 Incompatible materials
There is no additional information.

10.6 Hazardous decomposition products
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Shall not be classified as acutely toxic.

<table>
<thead>
<tr>
<th>Exposure route</th>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>oral</td>
<td>LD50</td>
<td>6,443 mg/kg</td>
<td>rat</td>
<td>TOXNET</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation
Shall not be classified as seriously damaging to the eye or eye irritant.
Respiratory or skin sensitisation
Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

• Specific target organ toxicity - single exposure
Shall not be classified as a specific target organ toxicant (single exposure).

• Specific target organ toxicity - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed
gastrointestinal complaints

• If in eyes
data are not available

• If inhaled
data are not available

• If on skin
data are not available

Other information
None

SECTION 12: Ecological information

12.1 Toxicity
acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
<th>Species</th>
<th>Source</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>220 mg/l</td>
<td>Salvelinus namaycush</td>
<td></td>
<td>96 h</td>
</tr>
</tbody>
</table>

12.2 Process of degradability
Theoretical Oxygen Demand with nitrification: 1.638 mg/mg
Theoretical Oxygen Demand: 1.497 mg/mg
Theoretical Carbon Dioxide: 2.013 mg/mg

12.3 Bioaccumulative potential
Data are not available.

12.4 Mobility in soil
Data are not available.
12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information
Do not empty into drains.

13.2 Relevant provisions relating to waste
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks
Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number
(not subject to transport regulations)

14.2 UN proper shipping name
not relevant

14.3 Transport hazard class(es)
not relevant

14.4 Packing group
not relevant

14.5 Environmental hazards
none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user
There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

- Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)
  Not subject to ADR, RID and ADN.

- International Maritime Dangerous Goods Code (IMDG)
  Not subject to IMDG.

- International Civil Aviation Organization (ICAO-IATA/DGR)
  Not subject to ICAO-IATA.
**SECTION 15: Regulatory information**

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

Relevant provisions of the European Union (EU)
- Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)
  Not listed.
- Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)
  Not listed.
- Regulation 850/2004/EC on persistent organic pollutants (POP)
  Not listed.
- List of substances subject to authorisation (REACH, Annex XIV)
  Not listed.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II
Not listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)
Not listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)
Not listed.

National inventories
Substance is listed in the following national inventories:
- EINECS/ELINCS/NLP (Europe)
- REACH (Europe)

15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: Other information**

16.1 Indication of changes (revised safety data sheet)

<table>
<thead>
<tr>
<th>Section</th>
<th>Former entry (text/value)</th>
<th>Actual entry (text/value)</th>
<th>Safety-relevant</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.2</td>
<td>Conditions for safe storage, including any incompatibilities:</td>
<td>Conditions for safe storage, including any incompatibilities:</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>Store in a dry place. Keep container tightly closed.</td>
<td>Store in a dry place. Keep container tightly closed.</td>
<td></td>
</tr>
<tr>
<td>7.2</td>
<td>• Specific designs for storage rooms or vessels:</td>
<td>• Specific designs for storage rooms or vessels:</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>Recommended storage temperature: 15 - 20 °C.</td>
<td>Recommended storage temperature: -20 °C.</td>
<td></td>
</tr>
</tbody>
</table>

Abbreviations and acronyms
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.