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

1.1 Product identifiers

Product Name: Anhydrotetracycline
Product Number: 2-0401-xxx
Component of kits: 2-1101-000, 2-1102-000, 2-1117-000

Registration Number:
A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No: 13803-65-1

1.2 Relevant identified uses of the substance or mixture

laboratory chemical

and uses advised against:
No relevant information available.

1.3 Details of the supplier of the safety data sheet

Supplier: IBA GmbH
Rudolf-Wissell-Str. 28
37079 Göttingen
Germany

Telephone: +49-551-50672-0
E-mail: info@iba-lifesciences.com

1.4 Emergency Telephone Number

Emergency Phone: +49 (0)551/ 19240 (Poison Information Center Göttingen)

2 Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]
Eye Irrit. 2 (H319), Repr. 2 (H361)

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictogram:

Signal word: Warning
Hazard statements: H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.

Precautionary statements:
P264 Wash hands thoroughly after handling.
P281 Use personal protective equipment as required.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
EUH phrases: n/a

2.3 Other hazards
All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

3 Composition/Information on ingredients
3.1 Chemical characterization: Substances
Name: Anhydrotetracycline hydrochloride
Synonym: (4S,4aS,12aS)-4-(Dimethylamino)-1,4,4a,5,12,12a-hexahydro-3,10,11,12a-tetrahydroxy-6-methyl-1,12-dioxo-2-naphthacenecarboxamide monohydrochloride
Molecular formula: C_{22}H_{22}N_{2}O_{7} \cdot HC
Molar Mass: 462.88 g/mol
CAS-No.: 13803-65-1
EC-No.: -

4 First aid measures
4.1 Description of first aid measures
After inhalation: Provide fresh air. If feeling unwell, consult a physician.
After skin contact: Wash with plenty of soap and water. If skin irritation occurs, consult a physician.
After eye contact: Flush eyes with water for at least 10 minutes. If irritation persists, consult a physician.
After ingestion: Rinse mouth and drink water if conscious. If feeling unwell, consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
Irritations

4.3 Indications of any immediate medical attention and special treatment needed
No relevant information available.

5 Firefighting measures
5.1 Extinguishing media
Suitable extinguishing media CO_{2}, dry extinguishing powder, foam, or water spray.
Unsuitable extinguishing media No relevant information available.
5.2 Special hazards arising from the substance of mixture
In case of fire irritant gases may be liberated.

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary (see section 5.2).

6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear suitable protective equipment.
Avoid eye and skin contact.
Provide suitable ventilation.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and material for containment and cleaning up
Take up mechanically.
Place in appropriate containers for disposal.
Provide suitable ventilation.

6.4 Reference to other sections
Information about safe handling: see section 7.
Information about protective equipment: see section 8.
Information for disposal: see section 13.

7  Handling and storage

7.1 Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.
Keep containers, equipment, and workplace clean.

7.2 Conditions for safe storage, including any incompatibilities
Storage rooms and containers: No special requirements.
Incompatible substances or mixtures: Keep away from food and drink.
Consideration of other advice: Keep containers tightly closed.
Recommended storage temperature: -25 – -15 °C

7.3 Specific end use(s)
No relevant information available.

8  Exposure controls/personal protection

8.1 Control parameters
Components with workplace control parameters: none

8.2 Exposure controls
General precautionary and hygiene measures
The usual precautions for handling chemicals should be observed.
Avoid contact with eyes and skin.
Wash hands before breaks and after work.

**Respiratory protection**
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Inspect gloves prior to each use. Choose suitable gloves according to break through time, permeation rate and material degradation.

  **Glove material**
  Nitrile rubber, minimum layer thickness: \( \geq 0.11 \text{ mm} \)
  The suitability of gloves depends on several quality characteristic besides the material. It may differ from one supplier to another.

  **Break through time**
  Break through level: Level \( \geq 6 \)
  The exact break through time should be inquired from the supplier and should be observed.

**Eye protection**
Use safety goggles with side protection.

**Body protection**
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### 9 Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>yellow powder</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>2.4 (in suspension)</td>
</tr>
<tr>
<td>Melting point</td>
<td>223 °C / 433,4 °F</td>
</tr>
<tr>
<td>Freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper/lower explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>16.0</td>
</tr>
<tr>
<td>Vapor density</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>fully miscible</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>no data available</td>
</tr>
</tbody>
</table>
Viscosity: no data available
Explosive properties: no data available
Oxidizing properties: no data available

9.2 Other safety information
No further relevant information available.

10 Stability and reactivity
10.1 Reactivity
See section 10.3
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No relevant information available.
10.4 Conditions to avoid
No relevant information available.
10.5 Incompatible materials
No relevant information available.
10.6 Hazardous decomposition products
Possible formation of hydrogen chloride, carbon dioxide, carbon monoxide and nitrogen oxides.

11 Toxicological information
11.1 Information on toxicological effects
Acute toxicity
No relevant information available.
Skin corrosion/irritation
May cause irritations of skin and mucous membranes.
Serious eye damage/eye irritation
Causes serious eye irritation.
Respiratory or skin sensitization.
No relevant information available.
Germ cell mutagenicity
No relevant information available.
Carcinogenicity
No relevant information available.
Reproductive toxicity
Suspected of damaging the unborn child.
Specific target organ toxicity – single exposure
May cause respiratory irritation.

Specific target organ toxicity – repeated exposure
No relevant information available.

Aspiration hazard
No relevant information available.

12 Ecological information

12.1 Toxicity
No relevant information available.

12.2 Persistence and degradability
No relevant information available.

12.3 Bioaccumulative potential
No relevant information available.

12.4 Mobility in soil
No relevant information available.

12.5 Results of PBT- and vPvB-assessment
No relevant information available.

12.6 Other adverse effects
No relevant information available.

13 Disposal considerations

13.1 Waste treatment methods
Recommendation for product:
The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Contaminated packaging:
Dispose 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 precaution for user
No relevant information available.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code
No relevant information available.

15 Regulatory Information

15.1 Safety, health and environmental regulation specific for the substance or mixture
National regulations:
No relevant information available.

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

16 Other information
The above information is based on our present-day knowledge. It does not represent any guarantee of the properties of the product, not guarantee specific properties of the product and shall not establish a legally valid contractual relationship.