

## TETRACYCLINE HCL

**TET02,  
TET03**

### SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product identifier

**Identification of the product** : Raw Material  
**Product code** : TET02, TET03  
**Trade name** : Tetracycline Hydrochloride  
**CAS number** : 64-75-5


**Warning**

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

**Use** : For research purposes only

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

**Company identification** : **Formedium Ltd.**  
 King's Lynn, England, PE31 6DJ  
 Tel: +44(0)1485 609069  
 Web: www.Formedium.com  
 E-mail: info@formedium.com

#### 1.4. Emergency telephone number

**Emergency phone nr** : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)  
 NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

### SECTION 2 Hazards Identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008

**Reproductive toxicity (Category 2)** : H361d – suspected of damaging the unborn child.

**Chronic aquatic toxicity (Category 2)** : H411 – Toxic to aquatic life with long lasting effects.

**Signal Word: WARNING**


#### 2.2. Label elements

##### Labelling according to Regulation (EC) 1272/2008

**Hazard statement(s):** H361 – suspected of damaging fertility or the unborn child.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement(s):** P280 – Wear protective gloves / protective clothing / eye protection / face protection.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 3 Composition/Information on Ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

#### Component

Substance name	contents	CAS No	EC No	Classification
Tetracycline hydrochloride	<=100 %	64-75-5	200-593-8	Repr.2: Aquatic chronic 2; Aquatic H361, H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

**TETRACYCLINE HCL****TET02,  
TET03****SECTION 4 First Aid Measures****4.1. Description of first aid measures**

- **General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Skin contact** : Wash off with soap and plenty of water. Consult a physician.
- **Eye contact** : Flush eyes with water as a precaution
- **Ingestion** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**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.

**SECTION 5 Fire-fighting Measures****5.1. Extinguishing media**

**Suitable extinguishing media** : Alcohol foam, Carbon Dioxide (CO<sub>2</sub>), Dry powder, Water Spray, dry chemical

**5.2. Special hazards arising from the substance or mixture**

No data available.

**5.3. Advice for fire-fighters**

If necessary, wear self-contained breathing apparatus for firefighting.

**5.4. Further information**

No data available.

**SECTION 6 Accidental Release Measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

**6.3. Methods and material for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

For disposal, see section 13

**SECTION 7 Handling and Storage****7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

**7.2. Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -20 °C

**7.3. Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## TETRACYCLINE HCL

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TET03**SECTION 8 Exposure Controls / Personal Protection****8.1. Control parameters**

Components 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:**

Safety glasses with side-shields conforming to EN166 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. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

**Body protection:**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9 Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

- |   |   |
|---|---|
| a) Appearance                                   | Form: powder                            |
| b) Odour  | No data available                       |
| c) Odour Threshold                              | No data available                       |
| d) pH   | No data available                       |
| e) Melting point/freezing point                 | Melting point/range: 220 - 223 °C - lit |
| f) Initial boiling point and boiling range      | No data available                       |
| g) Flash point                                  | No data available                       |
| h) Evaporation rate                             | No data available                       |
| i) Flammability (solid, gas)                    | No data available                       |
| j) Upper/lower flammability or explosive limits | No data available                       |
| k) Vapour pressure                              | No data available                       |
| l) Vapour density                               | No data available                       |
| m) Relative density                             | No data available                       |
| n) Water solubility                             | No data available                       |
| o) Partition coefficient: n-octanol/water       | No data available                       |
| p) Auto-ignition temperature                    | No data available                       |
| q) Decomposition temperature                    | No data available                       |
| r) Viscosity                                    | No data available                       |
| s) Explosive properties                         | No data available                       |
| t) Oxidizing properties                         | No data available                       |

**9.2. Other safety information**

No data available

**Formedium Ltd.**

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In case of emergency :+44(0)1485 609069

**TETRACYCLINE HCL****TET02,  
TET03****SECTION 10 Stability and Reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

May discolour on exposure to light.

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

Other decomposition products - No data available

In the event of fire: see section 5

**SECTION 11 Toxicological Information****11.1. Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat – 6,443 mg/kg

Inhalation – No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available.

**Respiratory or skin sensitisation**

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Germ cell mutagenicity**

No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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

**Additional Information**

RTECS: QI9100000

phototoxic reactions, Gastrointestinal disturbance, yellowing of teeth, reduced mineralization

Liver - Irregularities - Based on Human Evidence

**TETRACYCLINE HCL****TET02,  
TET03****SECTION 11 Toxicological Information (Continued)****11.2. Additional Information****Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 12 Ecological Information****12.1. Toxicity**

No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative 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, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6. Other adverse effects**

Toxic to aquatic life with long lasting effects.

**12.7. Endocrine disrupting properties**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 13 Disposal Considerations****13.1. Waste treatment methods****Product**

: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator with an afterburner and scrubber.

**Contaminated packaging**

: Dispose of as unused product

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings containing inner packagings with dangerous goods > 5L for liquids or > 5kgs for solids

**TETRACYCLINE HCL****TET02, TET03****SECTION 14 Transport Information****14.1. UN Number**

ADR/RID: 3077

IMDG: 3077

IATA:3077

**14.2. UN Proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE: SOLID, N.O.S. (Tetracycline Hydrochloride)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE: SOLID, N.O.S. (Tetracycline Hydrochloride)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE: SOLID, N.O.S. (Tetracycline Hydrochloride)

**14.3. Transport hazard class(es)**

ADR/RID:9

IMGD: 9

IATA:9

**14.4. Packaging group**

ADR/RID.111

IMDG: 111

IATA: 111

**14.5. Environmental hazards**

ADR/RID. Yes

IMDG Marine pollutant: Yes

IATA: Yes

**14.6. Special precautions for user**

Not applicable.

**14.7. Bulk transport - annex II Marpol 73/78 - IBC****SECTION 15 Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national / local regulations are observed. See label for full details, information.

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

**15.2. Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16 Other Information****Full text of H-Statements referred to under sections 2 and 3.**

H361 Suspected of damaging fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects

**Further information:**

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 with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Revision:**

Complete SDS revision.

End of document