

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,
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- **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 (CO₂), 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.

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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

TETRACYCLINE HCL**TET02,
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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

INDG: 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