

SAFETY DATA SHEET

Version:	1.1
Revision Date:	2019-07-09
Print Date:	2019-07-09

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

1.1 Product identifiers

Product Number:	T0096
Product name:	Tetracycline hydrochloride
CAS Registry Nr:	64-75-5

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

Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company:	Chemodex AG
	CH - 9000 St. Gallen
	Switzerland, Europe
	Tel: +41 71 244 48 25
	Fax: +41 71 244 48 26
	Email: info@chemodex.com
	Website: www.chemodex.com

1.4 Emergency telephone number

Tox Info Suisse:	145 or +41 44 251 51 51
-------------------------	-------------------------

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with (EC) No. 1272/2008 [EU-GHS/CLP]

Reproductive toxicity (Category 2),	H361
Short-term (acute) aquatic hazard (Category 2),	H401
Long-term (chronic) aquatic hazard (Category 2),	H411

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

2.2 Label elements

Labelling according Regulation (EC) No. 1272/2008

Pictogram	
Signal word	Warning

Hazard statement(s)

H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P391	Store locked up.
P405	Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

Supplemental Hazard Statements:	none
---------------------------------	------

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms:	2-Naphthacencarboxamide
Mol. Formula:	C ₂₂ H ₂₄ N ₂ O ₈ · HCl
Mol. Weight:	480.9 g/mol
CAS Registry No.:	64-75-5

Component	Classification	Concentration
Tetracycline hydrochloride CAS-No. 64-75-5	Repr. 2; Aquatic Acute 2; Aquatic Chronic 2; H361, H401, H411	<=100%

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

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.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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: Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas
Combustible.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

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

Do not let product enter drains.

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. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage

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

Protect from light and moisture. Store at -20°C.

Keep in a dry place. Keep in a dry place.

Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)

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

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.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance:	Yellow to orange powder
b)	Odour:	No data available
c)	Odour Threshold:	No data available
d)	pH:	No data available
e)	Melting point/freezing point:	220-223 °C (lit.)
f)	Boiling point	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)	Solubility:	Soluble in acetone or methanol.
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 information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

May discolor 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

No data available

Strong oxidizing

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

Remarks: (RTECS)

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation
--

No data available

Respiratory or skin sensitisation
--

No data available

Germ cell mutagenicity

Ames test	
Salmonella typhimurium	
Result: negative	
(Lit.)	
Carcinogenicity	
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.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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	
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
Liver - Irregularities - Based on Human Evidence	
Liver - Irregularities - Based on Human Evidence	

SECTION 12: Ecological information

12.1 Toxicity

<p>Toxicity to fish LC50 - Salvelinus namaycush (Lake trout, siscowet) - 220 mg/l - 96 h (US-EPA)</p> <p>Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 340 mg/l - 48 h (OECD Test Guideline 202)</p> <p>Remarks: The value is given in analogy to the following substances: Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 1 mg/l - 72 h (OECD Test Guideline 201)</p> <p>Remarks: The value is given in analogy to the following substances: static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0.5 mg/l - 72 h (OECD Test Guideline 201)</p>
--

Remarks: The value is given in analogy to the following substances:

Toxicity to bacteria static test IC50 - Bacteria - > 100 mg/l - 0.5 h

(OECD Test Guideline 209)

Remarks: The value is given in analogy to the following substances:

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 0 % - Not readily biodegradable.

(OECD Test Guideline 301B)

Remarks: The value is given in analogy to the following substances:

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

UN number: 3077

Class: 9

Packing group: III

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.

(Tetracycline hydrochloride)

Marine pollutant :	yes
--------------------	-----

IATA

UN number: 3077	Class: 9	Packing group: III
Proper shipping name:	Tetracycline hydrochloride	
Environmental hazards	Environmentally hazardous substance, solid, n.o.s. (Tetracycline hydrochloride)	
Further information	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.	

SECTION 15: Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Tetracycline hydrochloride

CAS-No.

64-75-5

Revision Date

2007-07-01

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Tetracycline hydrochloride CAS-No.

64-75-5

Revision Date

2007-07-01

Acute Health Hazard, Chronic Health Hazard SECTION 16: Other information

Further information

©2016 Chemodex Ltd. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but shall not be taken as being 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. Chemodex Ltd. and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemodex.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.