

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 14 Nov 2024

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product name:

Fentin chloride

# 1.1. Catalog No.:

677162

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

### 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

### 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

# 2.2. Label elements

# 2.2.1. Pictogram









2.2 Label elements Labelling according Regulation (EC) No 1272/2008
Pictogram Signal word Danger Hazard statement(s)
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H315 Causes skin irritation. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves/ protective clothing.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
Supplemental Hazard
Statements

none 2.3 Other hazards 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.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Statements

Synonyms: Triphenyltin chloride Chlorotriphenylstannane

Fentin chloride

Fentin chloride
Formula: C18H15CISn
Molecular weight: 385,47 g/mol
CAS-No.: 639-58-7
EC-No.: 211-358-4
Index-No.: 050-011-00-X
Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
Fentin chloride

Fentin chloride CAS-No. EC-No. Index-No. 639-58-7 211-358-4 211-358-4 050-011-00-X Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H331, H311, H315, H318, H400, H410

M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 100 <= 100 %

## 3.1.1. Formula

C18H15CISn



# 3.1.2. Molecular Weight (g/mol)

385.47

#### 3.1.3. CAS-No.

639-58-7

### 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. Take victim immediately to hospital. 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

4.3 Indication of any immediate medical attention and special treatment needed

No data available

# 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable 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, Hydrogen chloride gas, Tin/tin oxides 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



Wear respiratory protection. 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 materials 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.

### 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 2 - 8 °C

hygroscopic

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Eye/face protection

Face shield and safety glasses 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 \$\\$#039;\$ 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. Body Protection

Complete suit protecting against chemicals, 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



### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: solid

Colour: beige

b) Odour No data availablec) Odour Threshold No data available

d) pH No data available e) Melting point/freezing

point
Melting point/range: 108 °C - dec.
f) Initial boiling point and

1) Initial boiling point and boiling range 240 °C at 18,0 hPa - lit.
g) Flash point No data available h) Evaporation rate No data available i) Flammability (solid, gas) No data available il Hapar/lower

j) Upper/lower flammability or explosive limits

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: noctanol/

water

No data available p) Auto-ignition

témperature

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

## 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions

No data available 10.4 Conditions to avoid

hygroscopic

10.5 Incompatible materials
Strong oxidizing agents 10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

#### 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 118 - 238 mg/kg LD50 Dermal - Rabbit - > 1.000 mg/kg



Skin corrosion/irritation

Skin - Rabbit

Result: Severe skin irritation - 24 h Serious eye damage/eye irritation

Eyes - Rabbit

Result: Severe eye irritation - 24 h Respiratory or skin sensitisation

No data available Germ cell mutagenicity

Human

lymphocyte SLN

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC,

ACGIH, NTP, or EPA classification.

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

Reproductive toxicity - Rat - Oral
Paternal Effects: Testes, epididymis, sperm duct. Paternal Effects: Prostate, seminal vessicle, Cowper's

gland, accessory glands.
Reproductive toxicity - Rat - Oral
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Developmental Toxicity - Rat - Oral Effects on Embryo or Fetus: Other effects to embryo.

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: WH6860000

Muscle cramps/spasms., narcosis, Respiratory disorders

# 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 37 ug/l - 96 h Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0,009 mg/l - 48 h

Toxicity to algae Growth inhibition EC50 - Desmodesmus subspicatus (green algae) - 0,088 mg/l - 72 h 12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation Poecilia reticulata (guppy) - 14 d

- 0,90 ug/l

Bioconcentration factor (BCF): 1.100

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

Very toxic to aquatic life with long lasting effects



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 equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product

#### 14. TRANSPORT INFORMATION

14.1 UN number 14.1 UN number
ADR/RID: 3146 IMDG: 3146 IATA: 3146
14.2 UN proper shipping name
ADR/RID: ORGANOTIN COMPOUND, SOLID, N.O.S. (Fentin chloride)
IMDG: ORGANOTIN COMPOUND, SOLID, N.O.S. (Fentin chloride)
IATA: Organotin compound, solid, n.o.s. (Fentin chloride)
14.3 Transport hazard class(es)
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
14.4 Packaging group 14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: yes IATA: no 14.6 Special precautions for user No data available

### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Fentin chloride CAS-No.: 639-58-7
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Chemical qualifying for PIC notification.
Fentin chloride CAS-No.: 639-58-7
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Chemical qualifying for PIC notification.
Fentin chloride CAS-No.: 639-58-7
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals
Chemical qualifying for PIC notification.
15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

# 16. OTHER 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. For lab use only!