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

· Informations to product No. 2701

· Product name:

**Triclosan, API**  
Triclosanum

· Supplier of the Product / responsible Company:

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· Emergency telephone:

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

· Application of the substance / mixture:

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

· GHS-Labeling Elements:



· Signal word: Warning

· H-Phrases:

H315 Causes skin irritation

H319 Causes serious eye irritation

H410 Very toxic to aquatic life with long lasting effects

· P-Phrases:

P280 Wear protective gloves/protective clothing/eye protection/face protection


P273 Avoid release to the environment

**Skin irrit. 2**

**Eye Irrit. 2**

**Aquatic Acute 1**

**Aquatic Chronic 1**

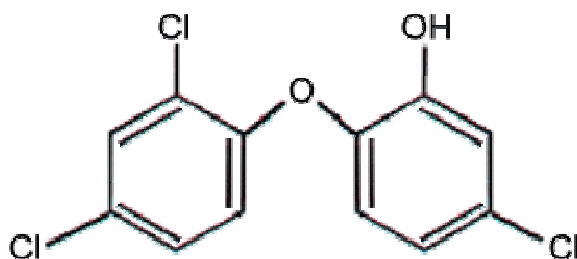
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### 3 Composition / information on ingredients

**CAS-No. Substance name**

CAS-Nr.: 3380-34-5 Triclosan (2,4,4'- Trichlor-2'-hydroxy-diphenylether)

- **EINECS-No.:** 222-182-2
- **INDEX-No.:** 604-070-00-9
- **REACH Reg. No.:** 01-2119446672-36-0000
- **INCI-Name:** Triclosan
- **Chemical characterization**



### 4 First aid measures


- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show this MSDS or product label.
- **after skin contact:** Wash away with plenty of water. In case of skin irritations seek medical advice.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If feeling unwell continuously seek medical advice.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

### 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: hydrogen chloride and toxic halogen organic compounds.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

### 6 Accidental release measures

- **Personal protective measures:** Avoid contact with substance. Wear suitable protective equipment according to Chapter 8 of this MSDS.
- **Methods for cleaning:** Take up dry. Avoid generation of dusts. Disposal according to Chapter 13 of this MSDS. Clean up with water.
- **Additional information:** Do not empty into drains, prevent from contaminating surface water or the ground water system.

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## 7 Handling and storage

- **Handling:** Avoid contact with substance. Avoid inhalation of dust.
- **Advice on safe handling:** Good ventilation / exhaustion of working place. Avoid dust formation.
- **Informations to fire or explosion protection:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ). Protect from temperatures above 40°C
- **Advices on common storage:** Not required.

## 8 Exposure controls / personal protective equipment

### Components with limit values that require monitoring at the workplace:

The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.


- **Personal protective equipment:**
- **General protective and hygiene measures:**  
Keep away from food.  
Take off contaminated clothes immediately  
Wash hands before breaks and after work.  
Avoid contact with skin and eyes.
- **Respiratory protection:** Dust protection mask
- **Hand protection:** Protection gloves of rubber or latex
- **Eye protection:** Tightly closing Safety glasses

## 9 Physical and chemical properties

- **Form:** Powder
- **Colour:** White or light beige
- **Odour:** Nearly odourless
- **Melting point / melting range:** 56 – 58 °C
- **Boiling point / boiling range:** Not determined
- **Flash point:** 223 °C DIN 51758
- **Ignition temperature:** 395 °C
- **Density:** (22 °C) 1,55
- **Solubility in / Miscibility with**
- **Water:** (20°C) 0,0065 g/l

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
No decomposition during appropriate use.
- **Hazardous reactions:** Reaction with strong acids and oxidants.
- **Hazardous decomposition products:** In case of fire Hydrogen and toxic pyrolysis products can be released.

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## 11 Toxicological information

### • Akute Toxizität

After singular oral exposition practically not toxic.

LD50 Rat (oral): > 5.000 mg/kg (OECD 401)

LD50 Rat (dermal): > 6.000 mg/kg (OECD 402)

### • Primary irritant effect:

• on skin: Irritant (OECD 404)

• on eyes: Irritant (OECD 405)

• Sensitization: No sensitizing effect.

• Additional informations: No genotoxic effects.

The substance can cause specific damages in organs after repeated ingestion of big quantities.

Damages kindneys.

## 12 Ecological information

### • Aquatic toxicity:

Acute very toxic for water organisms. In biological sewage plants disturbings of the biological activity of activated sludge is possible.

Fish toxicity:

LC50 (96 h) 0,54 mg/l, Brachydanio rerio (OECD 203, static)

Aquatic invertebrates:

EC50 (48 h) 0,427 mg/l, Daphnia magna (OECD 202, Teil 1, static)

Water plants:

EC50 (72 h) 1,61 µg/l (growth rate), Desmodesmus subspicatus

(Algae cell proliferation test static)

Microorganisms/effect on activated sludge:

EC50 (3 h) 11 mg/l, (OECD 209, aquatic)

Chronical toxicity fishes:

NOEC (96 d) 34.1 µg/l, Oncorhynchus mykiss (OPP 72-4 (EPA-guideline), flow.)

Chronical toxicity aquatic invertebrates:

NOEC (21 d), 0,04 mg/l, Daphnia magna (OECD 211, semistatic)

Others:

NOEC (14 d) < 147 mg/kg, Colinus virginianus (OPP 71-1 (EPA-Guideline))

### • Informations about elimination (persistence and biodegradation):

Evaluation biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (OECD-Criteria). From water good eliminable.

Elimination:

37 % BSB of ThSB (28 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerob, activated sludge)

99,4 % specific analysis (14 d) (OECD 302B; ISO 9888; 88/302/EWG, Teil C) (aerob, activated sludge)

Stability in water:

Slow degradation by reaction with water.

Stability in water (Hydrolysis):

t<sub>1/2</sub> > 1 a (25 °C, pH-value 7), (guideline 92/69/EWG, C.7)

### • Bioaccumulation potential:

Can be accumulated in organisms.


• log p(O/W): (20°C) 4,8

• Adsorption/water - soil: KOC: 831,8; log KOC: 2,92

Bioconcentration factor: 2.532 (35 days), Brachydanio rerio (OECD 305 C)

### • Additional information:

Chemical oxygen consumption (CSB): 1.116 mg/g

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Biochemical oxygen consumption (BSB) Incubation duration 5 d: 0 mg/g

Adsorbable organic halogen (AOX): 36.7 %

• **Water hazard class:** 2 (VwVwS, Annex 3): hazardous for water.

### 13 Disposal considerations

- **Product:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:** Disposal according to the local regulations.

### 14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Environmentally hazardous substance, solid, n.o.s., Triclosan
- **Class:** 9
- **UN-number:** 3077
- **Packing group:** III
- **Classification code:** M7
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 90
- **Special provisions (Chapter 3.3 ADR):** 274
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

### 15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS07, GHS09

- **Signal word:** Warning

- **H-Phrases:**

H315 Causes skin irritation

H319 Causes serious eye irritation

H410 Very toxic to aquatic life with long lasting effects

- **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection

P273 Avoid release to the environment

- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 11

### 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.