

## Triclosan (cas 3380-34-5) MSDS

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

#### 1.1 Product identifiers

Product name : 5-chloro-2-(2,4-dichlorophenoxy)phenol  
 Product Number : 524190  
 Brand :  
 Index-No. : 604-070-00-9  
 CAS-No. : 3380-34-5

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin irritation (Category 2)  
 Eye irritation (Category 2)  
 Acute aquatic toxicity (Category 1)  
 Chronic aquatic toxicity (Category 1)

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements

##### Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word : Warning

Hazard statement(s)

H315 : Causes skin irritation.  
 H319 : Causes serious eye irritation.  
 H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 : Avoid release to the environment.  
 P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 : Dispose of contents/ container to an approved waste disposal plant.

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P501

Supplemental Hazard Statements : none

##### According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



R-phrase(s)

R36/38 : Irritating to eyes and skin.  
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S39 : Wear eye/face protection.  
 S46 : If swallowed, seek medical advice immediately and show this container or label.  
 S60 : This material and its container must be disposed of as hazardous waste.  
 S61 : Avoid release to the environment. Refer to special instructions/ Safety data sheets.

#### 2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Formula : C<sub>12</sub>H<sub>7</sub>Cl<sub>3</sub>O<sub>2</sub>

Molecular Weight : 289,54 g/mol

Component

Concentration

#### 5-Chloro-2-(2,4-dichlorophenoxy)phenol

CAS-No. 3380-34-5

EC-No. 222-182-2

Index-No. 604-070-00-9

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## 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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

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## 5. FIREFIGHTING 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

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

### 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.

### 7.2 Conditions for safe storage, including any incompatibilities

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

### 7.3 Specific end uses

no data available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

### Components with workplace control parameters

## 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.

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The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### 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).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |   |  |
|---|--|
| a) Appearance                                   | Form: powder<br>Colour: white                      |
| b) Odour  | no data available                                  |
| c) Odour Threshold                              | no data available                                  |
| d) pH   | no data available                                  |
| e) Melting point/freezing point                 | Melting point/range: 56 - 60 °C - lit.             |
| f) Initial boiling point and boiling range      | 280 - 290 °C at 1.013 hPa - Decomposes on heating. |
| 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                             | 12 g/l at 20 °C - OECD Test Guideline 105          |
| o) Partition coefficient: n-octanol/water       | log Pow: 4,7                                       |
| p) Autoignition 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

Dissociation constant 8,14 at 20 °C

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**  
no data available

<sup>-524190</sup>  
**10.2 Chemical stability**  
no data available

**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**  
Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - 3.700 mg/kg

LD50 Dermal - rabbit - 9.300 mg/kg

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

Genotoxicity in vitro - rat - Other cell types - negative

Genotoxicity in vivo - rat - male and female - negative

#### 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.

#### Reproductive toxicity

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetal death.

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard

no data available

#### Potential health effects

##### Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

##### Ingestion

May be harmful if swallowed.

##### Skin

May be harmful if absorbed through skin. Causes skin irritation.

##### Eyes

Causes serious eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Additional Information

Repeated dose toxicity - rat - male and female - Oral - No observed adverse effect level - 75 mg/kg -

Lowest observed adverse effect level - 200 mg/kg

<sup>-524190</sup> Repeated dose toxicity - rat - male and female - Dermal - No observed adverse effect level - 80 mg/kg -

Lowest observed adverse effect level - > 80 mg/kg

RTECS: KO1100000

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0,288 mg/l - 96,0 h

Toxicity to daphnia and other aquatic EC50 - Daphnia magna (Water flea) - 0,39 mg/l - 48 h

