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## Material Safety Data Sheet

# Triclosan MSDS

### Section 1: Chemical Product and Company Identification

**Product name:**Triclosan

**Molecular formula:** C<sub>12</sub>H<sub>7</sub>Cl<sub>3</sub>O<sub>2</sub>

**CAS Nr:** 3380-34-5

**Molecular weight:** 289.54

**Synonyms:** TCS

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### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	%By Weight
Triclosan	3380-34-5	100

### Section 3: Hazards Identification

#### Classification according to Regulation (EC) No 1272/2008

**Hazard Symbols:** GHS07 GHS09

**Signal word:** Warning

#### **Hazard Statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

**Hazard Symbols:** Xi N

**Risk Phrases:** R36/38,R50/53

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:** S26, S39,S46, S60,S61

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 instruction/Safety data sheets.

### Section 4: First Aid Measures

#### **After Eye Contact**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Get medical aid immediately.

#### **After Skin Contact**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical aid immediately.

Wash clothing before reuse.

#### **After Ingestion**

Get medical aid immediately.

#### **After Inhalation**

Remove from exposure and move to fresh air immediately.

If not breathing, give artificial respiration.

Keep patient warm.

If breathing is difficult, give oxygen.

Get medical aid.

#### **Notes to Physician/Doctor**

Therapeutically measures: basic help, decontamination, symptomatic treatment.

## Section 5: Fire and Explosion Data

### Extinguishing Media

**Suitable extinguishing agents:** carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray, or alcohol resistant foam.

### Advice for firefighters

As in any fire, do not inhale explosion gases or combustion gases, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use proper personal protective equipment as indicated in Section 8.

Keep unprotected person away.

Ensure adequate ventilation.

### Environmental precautions

Keep dirty washing water for appropriate disposal.

### Methods and material for containment and cleaning up

Collect mechanically.

Send for recovery or disposal in suitable containers.

Ensure adequate ventilation.

### Spills/Leak

Sweep up or vacuum material, then place into a suitable clean, dry, closed container for disposal.

Clean up spills immediately, observing precautions in the Protective Equipment section.

Avoid generating dusty conditions.

Provide ventilation.

## Section 7: Handling and Storage

### Precaution for safe handling

Wash thoroughly after handling.

Remove contaminated clothing and wash before reuse.

Use with adequate ventilation.

Avoid contact with eyes, skin, and clothing.

Keep container tightly closed.

Avoid ingestion and inhalation.

Keep away from heat, sparks and flame.

### Condition for safe storage

Keep container tightly closed.

Store in a tightly closed container.

Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8: Exposure Controls/Personal Protection

### General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Use adequate ventilation to keep airborne concentrations low.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear chemical-protective gloves with CE-labeling of category III (EN 374) to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1920.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9: Physical and Chemical Properties

Molecular Formula:C12H7Cl13O2

Molecular Weight:289.5 g/mol

Appearance: Fine, whitish crystalline powder

PH:Not available

Vapor Pressure: Not available

Viscosity: Not available

Freezing/Melting Point:55.5-57.5 oC

Boiling Point:Not available

Flash Point: Not available

Explosion Limits, lower: Not available

Explosion Limits, upper: Not available

Solubility (at 20 oC) Practically insoluble in water, soluble alcohol and in acetone,etc.

## Section 10: Stability and Reactivity Data

### Chemical Stability:

Stable at room temperature in closed container under normal storage.

Stable if used according to specifications.

### Incompatible materials:

oxidizing agents

### Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, hydrogen chloride.

### Hazardous Polymerization:

Not occur.

### Section 11: Toxicological Information

**Acute toxicity:**

LD50 (oral, rat): 3700mg/kg

**Further toxicological information:**

Very toxic to aquatic organisms; Irritating to eyes and skin.

**Further data:**

Quantitative data on the toxicity of this product are not available.

Hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

### Section 12: Ecological Information

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

### Section 13: Disposal Considerations

**Recommendation for waste treatment methods**

Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies, which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself.

### Section 14: Transport Information

**Air transport ICAO-TI and IATA-DGR**

Hazard Class: 9: Miscellaneous dangerous goods

UN No.: 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

Packing group: III

**Maritime transport IMO/IMDG**

Hazard Class: 9: Miscellaneous dangerous goods

UN No.: 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

Packing group: III

Marine pollutant: Y

**Land transport RID/ADR**

Hazard Class: 9: Miscellaneous dangerous goods

UN No.: 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

Packing group: III

## Section 15: Other Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

**Hazard Symbols:** N, Xi

**Risk Phrases:**

R36/38: Irritating to eyes and skin.

R50/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:**

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.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

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