



Kumar Organic Products Limited

Material Safety Data Sheet

Triclosan 5000

1. Product and Company Identification.

Chemical Name : 2, 4, 4' - Trichloro - 2'-hydroxy diphenyl ether (Triclosan)
Trade Name : Triclosan
Generic Name : Triclosan
Products Code : K 001
Manufacturer Name : Kumar Organic Products Limited
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Bangalore, Karnataka, India
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2. Composition / Information on Ingredients

Composition : 2, 4, 4' - Trichloro - 2'-hydroxy diphenyl ether (Triclosan)
Formula : $C_{12}H_7O_2Cl_3$
Molecular Weight : 289.5
CAS No. : 3380-34-5
INCI Name : Triclosan
EINECS No. : 222-182-2
Harmonized Tariff No. : 2909.50.00

3. Hazards Identification.

Human Health Effects:

- A. Effects of Inhalation : Harmful
B. Effects of Skin Contact : Cause Irritation

Environmental effects: : Toxic to aquatic organisms: In the aquatic environment, it may cause long term adverse effects

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4. First Aid Measures.

General	: Remove subject from exposed areas. Remove contaminated clothing immediately.
A. After Inhalation	: Immediately remove to fresh air. If breathing stops, give artificial respiration. If breathing is difficult, give oxygen.
B. For Skin	: Immediately remove any contaminated clothing. Wash affected area with soap and water. Seek medical advice.
C. For Eyes	: Flush with copious amount of water for several minutes and take medical advice.
D. After Ingestion	: Wash out mouth with water, provided person is conscious. Drink plenty of water

5. Fire Fighting Measures.

Suitable Extinguishing Media	: Use water spray, Foam, Dry chemical powder, Carbon Dioxide.
Combustion Products	: May liberate hydrochloric acid on thermal decomposition.
Fire fighting procedures	: Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes

6. Accidental Release Measures.

Spill Response	: Protect the skin or eyes from the material. Wear self-contained breathing apparatus, Goggles and heavy rubber gloves. Be precautionous to ensure product doesn't not enter drains or surface waters.
Disposal	: Disposal of waste in accordance with all applicable federal, state and local laws.

7. Handling & Storage.

Handling	: As per good industrial hygiene standards. Use Rubber Gloves, Goggles for eyes protection and Aprons should be used.
Storage	: To be stored in properly sealed containers in a clean and dry place with adequate ventilation. Sensitive to heat above temperature of 40 degrees Centigrade.

8. Exposure Control & Personal Protection.

Exposure controls	: Wear suitable Respirator, Safety Goggles, suitable gloves & Aprons. For extra safety use within fume chambers. Wash thoroughly after handling. Do expose into eyes, on skin & clothing. Avoid prolonged or repeated exposure. Be particular about using the Safety showers & eye bath.
Occupational exposure controls	: Wear chemical safety goggles. : Compatible chemical resistant gloves.

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Personal protection:	
Respiratory protection	: Use NIOSH approved respirator when performing operations involving potential exposure to high levels of dust of product. Seek professional advice prior to respirator selection
Hand protection	: Wear impervious (eg. nitrile rubber) gloves.
Eye protection	: Wear splash-proof goggles or face shield.
Skin protection	: Wear protective footwear, light protective suit and helmet.
Work practices	: Eye wash facilities and a safety shower should be easily accessible. Before breaks and at the end of work thoroughly wash hands with soap and water. Wash contaminated clothing before reuse.
Environmental exposure controls	: All necessary precautions must be taken to avoid release into the environment. Refer to local, state or national legislation for environmental and pollution control.

9. Physical & Chemical Properties.

Appearance	: White powder, faintly aromatic.
Odour	: Mild, characteristic odour.
Melting point, °C	: 55 - 60°C
Flash point, °C	: 223°C
Thermal Decomposition	: Above 280°C
Solubility in:	
In Water	: Negligible.

10. Stability & Reactivity.

Stability	: Stable and no hazardous polymerization.
Reactivity	: Avoid contact with chlorinating substances

11. Toxicological Data.

Inhalation	: Irritating to mucous membranes and upper respiratory tract
Skin Contact	: Irritating to skin.
Eye contact	: Irritant

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Health-Related End-Points:

- A. Sensitization : Not confirmed to be a sensitizer.
B. Mutagenicity : Non mutagenic in Ames test.

12. Ecological Data.

- Bio-Elimination : 10-25%, TOC/DOC Analysis OECD 303A (mod).
Summary : Triclosan is not biodegraded in screening level tests due to its anti-microbial properties and the high concentrations of test substance in these tests. Partially eliminated by absorption on effluent treatment sludge.

13. Disposal Considerations.

- Product : Incineration, Observe local Regulations
Contaminated Packaging : Contaminated, empty containers must be disposed of as chemical waste

14. Transport Information.

The product is not classified as dangerous for transport in accordance with ADR, ADNR, RID, IATA, IMDG.

- UN No. : 3077
Class : 9
Primary risk : Keep away from food stuffs.

15. Regulatory Information.

Classification and Labeling

- in accordance with EC Directives : 83/467 EC.

Symbol & Classification:

- XI. N : Irritant and dangerous for the environment.
36/38 : Irritating to Eyes & Skin.
50 : Very toxic to aquatic organisms.
53 : May cause long - term adverse effects in the aquatic environment.

S phrases:

- 26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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37/39	: Wear suitable gloves & face protection.
61	: Avoid release to the environment. Refer to special Instruction / Safety data sheets.

16. Other Information.

The information contained in the material safety data sheet (MSDS) has been compiled from data considered to be accurate. This data is believed to be reliable, however it must be pointed out that values for certain properties are known to vary from source to source. This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his applications. This data relates only to the specific material designated and not to be used in combination with any other material. Many federal and state regulations pertain directly or indirectly to the product end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize themselves with all applicable regulations.

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