



## **MATERIAL SAFETY DATA SHEET**

### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION UNDERTAKING.**

PRODUCT: **TRICLOSAN**

CHEMICAL DESCRIPTION: 2,4,4'-TRICHLORO-2"-HYDROXY-DIPHENYL  
ETHER (TRICLOSAN) NONIONIC.

CAS#: 3380-34-5

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

INFORMATION ON INGREDIENTS % CAS-NO. SYMBOL R-PHASES

### **3. HAZARDS IDENTIFICATION**

IRRITATING TO EYES AND SKIN

VERY TOXIC TO AQUATIC ORGANISMS

MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

### **4. FIRST-AID MEASURES**

INHALATION

SKIN CONTACT REMOVE CONTAMINATED CLOTHING. WASH

AFFECTED SKIN WITH SOAP AND PLENTY OF

WATER. SEEK MEDICAL ATTENTION.

EYE CONTACT RINSE IMMEDIATELY WITH PLENTY OF WATER

FOR AT LEAST 10 MINUTES. SEEK MEDICAL

ATTENTION.

INGESTION WASH OUT MOUTH WITH WATER, DRINK PLENTY

OF WATER.

ADVICE FOR THE DOCTOR SYMPTOMATIC TREATMENT

### **5. FIRE-FIGHTING MEASURES**

FIRE EXTINGUISHING AGENTS WATERSPRAY, FOAM, POWDER, CARBON DIOXIDE

RESTRICTIONS NO RESTRICTIONS.

FIRE/EXPLOSION HAZARDS NONE

MAIN COMBUSTION GAS MAY LIBERATE HYDROCHLORIC ACID ON

THERMAL DECOMPOSITION.

PERSONAL PROTECTION SELF CONTAINED BREATHING APPARATUS.

### **6. ACCIDENTAL RELEASE MEASURES**

PERSONAL PROTECTION GOGGLES,GLOVES.

ENVIRONMENTAL PRECAUTIONS PREVENT ENTRY INTO DRAINS AND SURFACE WATERS

SPILLAGE PROCEDURE SCOOP INTO MARKED CONTAINERS FOR DISPOSAL AS CHEMICAL

WASTE.

### **7. HANDLING AND STORAGE**

OCCUPATIONAL HYGIENE AVOID INGESTION, INHALATION, SKIN AND EYE

CONTACT. HANDLE IN ACCORDANCE WITH GOOD

INDUSTRIAL HYGIENE PRACTICE AND ANY LEGAL

REQUIREMENTS.

FIRE PRECAUTIONS STORE IN A COOL, DRY AREA WITH ADEQUATE

VENTILATION

SEGREGATION NO SPECIAL PRECAUTIONS

STORAGE CONDITIONS KEEP CONTAINERS CLOSED.

SENSITIVE TO HEAT OVER 40°C.

### **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

COMPONENTS WITH NO OCCUPATIONAL EXPOSURE  
LIMITS PERSONAL PROTECTION GOGGLES, GLOVES.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE FORM POWDER

COLOR WHITE

ODOR NONE

RELEVANT SAFETY DATA

MELTING POINT 55-60 °C

BOILING POINT 190-200 °C

FLASH POINT 223 °C DIN 51758

THERMAL DECOMPOSITION > 280 °C

IGNITION TEMPERATURE - °C

AUTO-IGNITION - °C

OXIDISING PROPERTIES NONE

EXPLOSION LIMITS LOWER UPPER

VAPOR PRESSURE -64X10 MM HG

DENSITY G/ML AT °C

SOLUBILITY IN WATER 0.01 G/F AT 20 °C

G/F AT °C

pH - - G/F

PARTITION COEFFICIENT 5.7 LOG POW

VISCOSITY - mPa.s AT °C

FREEZING POINT (DEG.C): 55-58

**10. STABILITY AND REACTIVITY**

CONDITIONS TO AVOID NONE

MATERIALS TO AVOID AVOID CONTACT WITH CHLORINATING  
SUBSTANCES.

HAZARDOUS DECOMPOSITION NONE UNDER NORMAL STORAGE CONDITIONS  
PRODUCTS.

**11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY (LD50) 4300 MG/KG RAT (ORAL)

PRIMARY IRRITATION (SKIN) IRRITANT EC 83 RABBIT

(EYE) IRRITANT EC83 RABBIT ADVERSE EFFECTS IN  
MAN

**12. ECOLOGICAL INFORMATION**

BIOELIMINATION <10%. OXYGEN CONSUMPTION.

SUMMARY TRICLOSAN IS NOT BIODEGRADED IN SCREENING

LEVEL TESTS DUE TO ITS ANTIMICROBIAL

PROPERTIES AND THE HIGH CONCENTRATIONS

OF TEST SUBSTANCES IN THESE TESTS.

ENVIRONMENTAL FATE TESTS WITH ACTIVATED SLUDGE (BATCH AND

CONTINUOUS TESTS) AT ENVIRONMENTALLY

RELEVANT. TRICLOSAN CONCENTRATIONS

DEMONSTRATE NEARLY COMPLETE REMOVAL

OF TRICLOSAN FROM WASTEWATER, LARGELY

AS A RESULT OF BIODEGRADATION.

BEHAVIOR IN TREATMENT NITRIFICATION INHIBITION TEST PLANTS

ECOLOGY DATA

BOD5 0 MGO2/G COD 1116 MGO2/G TOC 50%

PHOSPHORUS CONTENT - %

ORGANOHALOGEN CONTENT 36.7 % CHLORO

METAL CONTENT - %

%

%

TESTED MATERIAL %

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**13. DISPOSAL CONSIDERATIONS**

PRODUCT INCINERATION. OBSERVE LOCAL REGULATIONS.

CONTAMINATED PACKAGING CONTAMINATED, EMPTY CONTAINERS MUST BE  
DISPOSED OF AS CHEMICAL WASTE.

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**14. TRANSPORT INFORMATION KEEP AWAY FROM FOODSTUFFS**

UN NUMBER 3077  
CORRECT TECHNICAL NAME ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (TRICLOSAN, MARINE POLLUTANT)  
ADR/RID CLASS 9.12 (C) IMDG CLASS 9  
ICAO CLASS FREE PACKING GROUP III SUBSIDIARY RISK  
**15. REGULATORY INFORMATION**  
CLASSIFICATION AND LABELLING 83/467 EC  
SYMBOL AND CLASSIFICATION Xi,N IRRITANT AND DANGEROUS FOR THE ENVIRONMENT  
36/38 IRRITATING TO EYES AND SKIN.  
50 VERY TOXIC TO AQUATIC ORGANISMS.  
53 MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC  
ENVIRONMENT  
-PHASE 26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND  
SEEK  
MEDICAL ADVICE.  
37/39 WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.  
61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO  
SPECIAL INSTRUCTION/SAFETY DATA SHEETS. CONTAINS TRICLOSAN.

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