



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
email: info@jeen.com , Website: www.jeen.com

MATERIAL SAFETY DATA SHEET

ISSUED BY: JEEN INTERNATIONAL CORP.
24 MADISON ROAD
FAIRFIELD, NJ 07004
Telephone # 973-439-1401
Chemtrec Emergency Telephone No.: 800-424-9300
Chemtrec International Telephone No.: 703-527-3887 (Collect Calls Accepted)

REVISION DATE: 12-05-2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING.

PRODUCT: **JEECHEM TRICLOSAN USP**
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	REMOVE CONTAMINATED CLOTHING. WASH AFFECTED SKIN WITH SOAP AND PLENTY OF WATER. SEEK MEDICAL ATTENTION.
SKIN CONTACT	
EYE CONTACT	
INGESTION	
ADVICE FOR THE DOCTOR	ATTENTION. WASH OUT MOUTH WITH WATER, DRINK PLENTY OF WATER. 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.
ADDITIONAL INFORMATION	



24 Madison Road, Fairfield, New Jersey 07004, USA
 Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
 email: info@jeen.com , Website: www.jeen.com

**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
 MATERIALS TO AVOID**

NONE
 AVOID CONTACT WITH CHLORINATING SUBSTANCES.

HAZARDOUS DECOMPOSITION PRODUCTS.

NONE UNDER NORMAL STORAGE CONDITIONS

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	> LD50: 5000 mg/kg (Rats)
ACUTE DERMAL TOXICITY:	> LD50 6000 mg/kg (Rats)
ACUTE INHALATION TOXICITY:	> 140 mg/m ³ LC50 (Rats)
EYE IRRITATION:	(Rabbits) Irritant
SKIN IRRITATION:	(Rabbits) Irritant
SKIN SENSITIZATION:	In guinea pigs, not a dermal sensitizer by maximization test or Buehler (non-adjuvant) test. RIPT (Humans) – Not a primary irritant, fatiguing agent or sensitizer. Phototoxicity (humans): Not phototoxic by dermal route. Photoallergy (humans): Not a photosensitizer by dermal route.



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
email: info@jeen.com , Website: www.jeen.com

Page No. 3 of 4 – MSDS – JEECHEM Triclosan USP

CARCINOGENICITY (IARC; NTP; OSHA; ACGIH):

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA, or ACGIH as a carcinogen.

CARCINOGENICITY STUDIES:

Chronic: The primary target organ after oral dosing is the liver in rats and mice and the kidney in hamsters. The NOEL in rats is 52 (males and 67 (females) mg/kg/d, and in hamsters 75 mg/kg/d.

Carcinogenicity: Rat and hamster chronic studies did not reveal any pre-neoplastic or neoplastic effects of oral dosing. A carcinogenicity study in mice fed at 10 up to 200 mg/kg/d revealed a significant incidence of tumors only in the liver of mice exposed to 30 mg/kg/d and higher. The NOEL of 10 mg/kg/d is over 500 times higher than relevant human exposure levels and according to the US Food and Drug Administration, provides sufficient margin of safety for human use.

MUTAGENICITY:

Not mutagenic in bacterial (Ames) assay and mouse lymphoma test (TK locus).

Not clastogenic in CHO cells in vitro.

Unscheduled DNA synthesis did not occur.

Negative in mouse micronucleus test in vivo.

REPRODUCTIVE TOXICITY:

Rat fertility and reproduction index values over two generations were not adversely affected at 150 mg/kg/day, the highest dose given in the diet. For offspring (F1 pups), the NEL is 50 mg/kg/day based on increased ($p < 0.05$) body weight.

TERATOGENICITY:

Rats showed delayed fetal ossification at 150 mg/kg/day (gestation days 6 through 15), developmental effects did not occur; maternal and fetal NOEL=50 mg/kg/day.

Mice showed maternal effects and delayed fetal ossification at 150 mg/kg/day (gestation days 6 through 15); maternal and fetal NEL = 25 mg/kg/day.

Rabbits showed only maternal body weight and food intake reductions at 150 mg/kg/day (gestation days 6 through 18); maternal NOEL = 50 mg/kg/day; fetal NOEL = 150/mg/kg/day.

NEUROTOXICITY:

Not determined

SUBACUTE TOXICITY:

Not determined

SUBCHRONIC TOXICITY:

The dermal NOEL in rats is 10 mg/kg/d for skin effects; systemic effects did not occur at doses up to 80 mg/kg/d. Oral dosing of rodents revealed NOELs of 100 (rat), 75 (Hamster), and below 25 mg/kg/d (mouse). Oral dosing resulted in NOELS of 30 mg/kg/d in baboon and 25 mg/kg/d in dog.

CHRONIC TOXICITY:
ABSORPTION/DISTRIBUTION/EXCRETION/
METABOLISM:
ADDITIONAL INFORMATION:

Not determined.

Not determined.

Dermal studies in animals and human volunteers did not reveal adverse systemic effects. Additional studies indicate the material does not accumulate in tissues and is readily metabolized and removed from the body.



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
email: info@jeen.com , Website: www.jeen.com

Page 4 of 4 – MSDS – JEECHEM Triclosan USP

12. ECOLOGICAL INFORMATION

BIOELIMINATION	<10%. OXYGEN CONSUMPTION.
BIODEGRADABILITY:	NOT READILY BIODEGRADABLE. AEROBIC SOIL SHOWED PRIMARY BIODEGRADATION WITH HALF-LIFE 17 - 35 DAYS. SECONDARY WASTEWATER TREATMENT (ACTIVATED SLUDGE): 95% REMOVAL OF INFLUENT CONCENTRATIONS.
BIOACCUMULATION:	NOT DETERMINED.
BEHAVIOR IN TREATMENT	NITRIFICATION INHIBITION TEST PLANTS
TOXICITY TO FISH:	BLUEGILL: LC50 840 ug/L (96 hr); NOEC 560 ug/L. FATHEAD MINNOW: LC50 260 ug/L (96 hr); NOEL 100 ug/L; LC100 560 ug/L (24 hr) RAINBOW TROUT: LC50 350 ug/L (48 hr); NOEL 100 ug/L RAINBOW TROUT, EARLY LIFE STAGE: LOEC 71 ug/L; NOEC 34 ug/L
TOXICITY TO INVERTEBRATES:	DAPHNIA MAGNA: LC50 390 ug/L DAPHNIA MAGNA (21 DAY CHRONIC): LOEC 200 ug/L; NOEC 40 ug/L CERIODAPHNIA DUBIA: EC50 130 ug/L NOEC 0.46 ug/L
TOXICITY TO ALGAE:	> 1030 ug/Kg LC 50
TOXICITY TO EARTHWORMS:	CUCUMBER SEEDLINGS NOEC > 1000 ug/Kg
TOXICITY TO PLANTS:	BOBWHITE QUAIL (ORAL ACUTE): LD50 862 mg/Kg
TOXICITY TO BIRDS:	BOBWHITE QUAIL (8 DAY FEEDING): LC50 5000 mg/Kg; NOEL 1250 mg/Kg. MALLARD DUCK: LD50 > 2150 mg/Kg
TOXICITY TO SEWAGE BACTERIA:	NOT DETERMINED.

13. DISPOSAL CONSIDERATIONS

PRODUCT
CONTAMINATED PACKAGING

INCINERATION. OBSERVE LOCAL REGULATIONS.
CONTAMINATED, EMPTY CONTAINERS MUST BE
DISPOSED OF AS CHEMICAL WASTE.

14. TRANSPORT INFORMATION

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-Hazardous for Air Transport: Non-hazardous for air transport.

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.

16. SPECIAL INSTRUCTION/SAFETY DATA SHEETS. CONTAINS TRICLOSAN.

This product is listed on the TSCA Inventory List.