spectrum®



SAFETY DATA SHEET

1. IDE Product identifier Product code: T2876	NTIFICATION	
Product code: T2876		
Product Name: TRICLOSAN		
5-Chloro-2-(2,4-dic Phenol, 5-chloro-2	ydroxydiphenyl ether hlorophenoxy)phenol (2,4-dichlorophenoxy)- droxy-2,4,4'-trichloro-	
CAS #: 3380-34-5 RTECS # KO1100000 CI#: Not available		
Recommended use of the chemical and restriction	s on use	
Recommended use:Antimicrobial agenUses advised againstNo information availa		
Supplier: Spectrum Chemica 14422 South San F Gardena, CA 9024 (310) 516-8000.	Pedro St.	
	rumchemical.com	
Emergency telephone number Chemtrec 1-800-424		
Contact Person:Martin LaBenz (WeContact Person:Ibad Tirmiz (East C		

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Label elements

Warning

Hazard statements Causes skin irritation Causes serious eye irritation



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

May be harmful if swallowed Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Triclosan	3380-34-5	100

4. FIRST AID MEASURES

First aid measures

General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	Irritating to eyes and skin. May affect the endocrine system. May cause thyroid hypofunction (hypothyroidism). May cause adverse reproductive and developmental effects.

Indication of any immediate medical attention and special treatment needed

Notes to Physician:

Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES			
Extinguishing Media Suitable Extinguishing Media:	Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.		
Unsuitable Extinguishing Media:	No information available.		
Specific hazards arising from the chemical			
Hazardous Combustion Products:	Carbon Dioxide, Carbon Monoxide. Hydrogen Chloride Gas.		
Specific hazards:	May be combustible at high temperatures		
Special Protective Actions for Firefighters			
Specific Methods:	No information available.		
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear		

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Personal Precautions:	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water.	
Methods and material for containment and cleaning up		
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.	
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.	

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good

industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from light. Sensitive to light. Store in light-resistant containers. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Triclosan	3380-34-5	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Triclosan	3380-34-5	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Triclosan	3380-34-5	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles	
Skin and body protection:	Long sleeved clothing. Chemical resistant apron. Gloves.	
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposur the substance is apparent (e.g. generation of high concentration of dust (du clouds), inadequate ventilation, development of respiratory tract irritation), engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.	ist and
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or sm	
Product code: T2876	Product name: TRICLOSAN	4/1

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Odor: Faint. Aromatic.

Molecular/Formula weight: 289.54

Flash Point Tested according to: Not applicable

Upper Explosion Limit (%): No information available

Boiling point/range(°C/°F): 280-290 °C/536-554 °F

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Appearance: No information available.

Taste No information available.

Flammability: No information available

Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): 54-58 °C/129.2-136.4 °F

Bulk density: No information available

pH: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): Log kow = 4.76

Solubility: Practically insoluble in water Color: White.

Formula: C12H7Cl3O2

Flashpoint (°C/°F): No information available.

Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F): 280-290 °C/536-554 °F

Density (g/cm3): 1.55

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

Reactivity

10. STABILITY AND REACTIVITY

No information available

Chemical stability	
Stability:	Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended storage conditions.
Possibility of Hazardous Reactions	- Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Incompatible materials. Exposure to light.
Incompatible Materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide. Hydrogen chloride gas.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

Triclosan			
CAS-No.	3380-34-5		
LD50/oral/rat = 3700 mg/kg Oral LD50 Rat LD50/oral/mouse = 4530 mg/kg			
LD50/dermal/rabbit = No information available			
LD50/dermal/rat = 9300 mg/k			
LC50/inhalation/rat = No info			
LC50/inhalation/mouse = No			
Other LD50 or LC50information	ion = No information available		
Product Information			
LD50/oral/rat =			
VALUE- Acute Tox Oral = 3700	mg/kg		
LD50/oral/mouse =			
Value - Acute Tox Oral = 4530	mg/kg		
LD50/dermal/rabbit VALUE-Acute Tox Dermal = No	information available		
LD50/dermal/rat			
VALUE -Acute Tox Dermal = 93	00 mg/kg		
	The four for bolinging		
LC50/inhalation/rat			
VALUE-Gas = No information ava	VALUE-Vapor = No information available		
VALUE-Dust/Mist = No information available			
LCEO/Inhabition/mouse			
LC50/Inhalation/mouse VALUE-Vapor = No information available			
VALUE - Gas = No information available			
VALUE - Dust/Mist = No information available			
Symptoms_			
Skin Contact:	Mildly to moderately irritating to the skin.		
Eye Contact:	Causes serious eye irritation. Moderately irritating to the eyes.		
Inhalation	May cause irritation of respiratory tract.		
Ingestion	May be harmful if swallowed.		
Aspiration hazard	No information available.		
Delayed and immediate effects a	as well as chronic effects from short and long-term exposure		
Chronic Toxicity	Triclosan is a potential endocrine endocrine disruptor. Endocrine disruptors can		

interfere with endocrine (or hormone) systems. Prolonged or repeated ingeston may affect the endocrine system. Prolonged or repeated ingestion may cause adverse reproductive, and developmental effects. Prolonged or repeated ingestion may affect the thyroid (thyroid hypofunction). Prolonged or repeated skin contact (absorption) may affect the endocrine (or hormone) system.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Triclosan	3380-34-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available		
Reproductive Effects: Developmental Effects: Teratogenic Effects:	No information available No information available No information available		

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	Aquatic environment.
<i>Triclosan - 3380-34-5</i> Freshwater Fish Species Data: Water Flea Data:	250 μg/L LC50 Pimephales promelas 96 h 1 390 μg/L EC50 Daphnia magna 48 h
Persistence and degradability:	No information available
Bioaccumulative potential:	Potential for bioconcentration in aquatic organisms is low.
Mobility:	It is expected to have low mobility based upon estimated Koc.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Triclosan	3380-34-5	None	None	None	None

14. TRANSPORT INFORMATION

DOT

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (Ibs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	Net Devulate 1
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group: Marine Pollutant	No information available
	No Information available
Description:	No information available
ADR	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
-	
IMO / IMDG	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
RID	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
. aoking Croup.	
ICAO	
UN-No:	Not Regulated
Proper Shipping Name:	No information available

Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
ΙΑΤΑ	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
ERG Code:	No information available
Special Provisions	No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Triclosan	3380-34-5	Present	Present KE-05588	Present	Present (9)-381 (9)-922	Present	Present	Present 222-182-2

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Triclosan	3380-34-5	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Triclosan	3380-34-5	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
Triclosan	3380-34-5	Not Applicable	Not Applicable
	5566 54 5		

Canada

WHMIS hazard class:

D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Triclosan	3380-34-5	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Triclosan	3380-34-5	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Triclosan	3380-34-5	Not listed

EU Classification

R-phrase(s)

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

R36/38 - Irritating to eyes and skin.

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.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Triclosan	3380-34-5	Xi; R36/38 N; R50-53	20%<=C: Xi,N; R36/38-50/53 0.25%<=C<20%: N; R50/53 0.025%<=C<0.25%: N R51/53 0.0025%<=C<0.025%: R52/53	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xi - Irritant.

N - Dangerous for the environment.



16. OTHER INFORMATION

Preparation Date:	11/23/2016	
Revision Date: Prepared by:	11/23/2016 Sonia Owen	

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this

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End of Safety Data Sheet