Material Safety Data Sheet

Section 1: Product and Company Identification			
Product Name	Irgasan (triclosan)		
Catalogue Number:	AS-2013	**CAS Number:**	3380-34-5
E-mail:	Sales@ausamics.com	**Website**:	Ausamics.com

Section 2: Hazards Identification	
Classification of the substance or mixture **GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)** Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410	
GHS Label elements, including precautionary statements	
Pictogram	
Signal Word	Warning
Hazard statement(s) H315 Causes skin irritation. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.	
Precautionary statement(s) P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose	
Hazards not otherwise classified (HNOC) or not covered by GHS none	

Section 3: Composition / Information on Ingredients	
Mixture	
Synonyms	5-Chloro-2-(2,4-dichlorophenoxy)phenol
Formula Molecular weight CAS-No.	C12H7Cl3O2 289.54 g/mol 3380-34-5

EC-No. Index-No.	222-182-2 604-070-00-9		
Component		**Classification**	**Concentration***
Triclosan			
		Skin Irrit. 2; Eye Irrit. 2A; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H400, H410 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1	<= 100 %
* Weight %			

Section 4: First Aid Measures	
Description of first-aid measures	
General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	After eye contact: rinse out with plenty of water. Call in the ophthalmologist. Remove contact lenses.
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.	
Indication of any immediate medical attention and special treatment needed No data available	

Section 5: Fire Fighting Measures
Extinguishing media
Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture Carbon oxides Hydrogen chloride gas Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.
Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures
Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dust. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental precautions Do not let product enter drains.
Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Reference to other sections For disposal see section 13.

Section 7: Handling and Storage	
Precautions for safe handling For precautions see section 2.	
Conditions for safe storage, including any incompatibilities	
Storage conditions	Tightly closed. Dry.
Storage class	Storage class (TRGS 510): 11: Combustible Solids

Section 8: Exposure Controls / Personal Protection
Control parameters **Components with workplace control parameters** Contains no substances with occupational exposure limit values.
Exposure controls **Appropriate engineering controls** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. **Personal protective equipment**
Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
Skin protection Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L
Body Protection protective clothing
Respiratory protection required when dust is generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure Do not let product enter drains.

Section 9: Physical and Chemical Properties	
Physical state	Powder
Color	White
Odor	phenol-like
Odor Threshold	No data available
Melting point/freezing point	Melting point/range: 55.0 - 59.0 °C (131.0 - 138.2 °F)
Initial boiling point and boiling range	280 - 290 °C 536 - 554 °F at 1,013 hPa - Decomposes on heating.
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Vapor pressure	0.00001 hPa at 25 °C (77 °F) - OECD Test Guideline 104
Vapor density	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity	No data available
Water solubility	0.0108 g/l at 30 °C (86 °F) - OECD Test Guideline 105
Partition coefficient: n-octanol/water	log Pow: 4.8 at 25 °C (77 °F) - OECD Test Guideline 107 - Potential bioaccumulation
Density	No data available
Relative density	1.5522 °C
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	
Dissociation constant	8.14 at 20 °C (68 °F) - OECD Test Guideline 112

Section 10: Stability and Reactivity
Reactivity The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions Violent reactions possible with: Strong oxidizing agents

Conditions to avoid no information available
Incompatible materials No data available
Hazardous decomposition products In the event of fire: see section 5

Section 11: Toxicological Information	
Information on toxicological effects	
Mixture	
Acute toxicity	LD50 Oral - Rat - 3,700 mg/kg Remarks: (RTECS) Inhalation: No data available LD50 Dermal - Rabbit - 9,300 mg/kg Remarks: (RTECS) No data available
Skin corrosion/irritation	Remarks: Causes skin irritation.
Serious eye damage/eye irritation	Remarks: Causes serious eye irritation.
Respiratory or skin sensitization	Buehler Test - Guinea pig Result: negative (OECD Test Guideline 406)
Germ cell mutagenicity	In vivo tests did not show mutagenic effects Test Type: unscheduled DNA synthesis assay Test system: rat hepatocytes Method: OECD Test Guideline 482 Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: positive Test Type: gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Chromosome aberration test Species: Rat Cell type: Bone marrow Application Route: Gavage Method: OECD Test Guideline 475 Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

Additional Information	Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - 75 mg/kg - LOAEL (Lowest observed adverse effect level) - 200 mg/kg Repeated dose toxicity - Rat - male and female - Dermal - NOAEL (No observed adverse effect level) - 80 mg/kg - LOAEL (Lowest observed adverse effect level) - > 80 mg/kg RTECS: KO1100000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information	
Toxicity	
Toxicity to fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.288 mg/l - 96 h Remarks: (ECOTOX Database)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.39 mg/l - 48 h Remarks: (ECOTOX Database)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 0.17 mg/l - 72 h (OECD Test Guideline 201)
Persistence and degradability	
Biodegradability	aerobic - Exposure time 28 d Result: 37 % - Not readily biodegradable. (OECD Test Guideline 301B)
Bio accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Endocrine disrupting properties	No data available
Other adverse effects	Discharge into the environment must be avoided.

Section 13: Disposal Consideration
Waste treatment methods **Product** Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material
Contaminated packaging Dispose of as unused product.

Section 14: Transport Information	
TDG	UN number: 3077 Class: 9 Packing group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (triclosan) Labels: 9 ERG Code: 171 Marine pollutant: no
IMDG	UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (triclosan) Marine pollutant: yes Marine pollutant: no
IATA	UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (triclosan)
Further information	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids. Packages smaller than or equal to 5 kg / L, not dangerous goods of Class 9.

Section 15: Regulatory Information
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Section 16: Additional Notes	
Documented By	Ausamics Life Science Sales@Ausamics.com
Revision date	June 01, 2024
Summary of Revisions	This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS).
Disclaimer	The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text.