





Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>1</td></tr></table>	Health Hazard	2	Fire Hazard	1	Reactivity	1	<div></div> <div>See Section 15.</div>
Health Hazard	2							
Fire Hazard	1							
Reactivity	1							

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Dichloroisocyanuric Acid Sodium Salt	Catalog Number(s).	D1131
		CAS#	2893-78-9
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	RTECS	XZ1900000
		TSCA	TSCA 8(b) inventory: Dichloroisocyanuric Acid Sodium Salt
Commercial Name(s)	Troclosene Sodium	CI#	Not available.
Synonym	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro, sodium salt; 1-Sodium-3,5-dichloro-1,3,5-triazine-2,4,6-trione; 1-Sodium-3,5-dichloro-s-triazine-2,4,6-trione; Isocyanuric acid, dichloro-, sodium salt; Sodium dichlorisocyanurate; Sodium dichlorocyanurate; Sodium dichloroisocyanurate; Sodium salt of dichloro-s-triazinetriion	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL (310) 516-8000	
Chemical Name	s-Triazine-2,4,6(1H,3H,5H)-trione, dichloro-, sodium salt		
Chemical Family	Not available.		
Chemical Formula	C3-Cl2-N3-O3-Na		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2. Composition and Information on Ingredients					
		Exposure Limits			
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Dichloroisocyanuric Acid Sodium Salt	2893-78-9				100
Toxicological Data on Ingredients	Dichloroisocyanuric Acid Sodium Salt: ORAL (LD50): Acute: 1420 mg/kg [Rat].				

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Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	CLOSED CUP: 230°C (446°F).
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat, of combustible materials, of organic materials. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat. Non-explosive in presence of shocks.
Fire Fighting Media and Instructions	Oxidizing material. Do not use water jet. Use flooding quantities of water. Avoid contact with organic or combustible materials. Do not use dry chemical extinguishers containing ammonium compounds.
Special Remarks on Fire Hazards	The material itself is not combustible, but if contaminated with a combustible or organic material (e.g. organic matter, wood, paper, oil, sawdust, floor sweepings, easily oxidized organics) ignition can result. It will accelerate the burning of combustible materials. Reaction with ammonium salts, or foreign substances may also increase fire hazard. Do not use dry chemical extinguishers containing ammonium compounds.

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Special Remarks on Explosion Hazards Reacts explosively with calcium hypochlorite in the presence of water. May explode from heat or contamination.

Section 6. Accidental Release Measures

Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

Section 7. Handling and Storage

Precautions Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers.

Section 8. Exposure Controls/Personal Protection

Engineering Controls 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.

Personal Protection Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Powdered solid.)	Odor	Chlorine-like
Molecular Weight	219.95 g/mole	Taste	Not available.
pH (1% soln/water)	6.5 [Acidic.]	Color	White.
Boiling Point	Not available.		
Melting Point	Decomposition temperature: 240°C (464°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, acetone.		

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Solubility	Easily soluble in cold water, hot water. Partially soluble in acetone. Solubility in water: 227 g/l water @ 25 deg. C Solubility in acetone: 0.5 g/100 g acetone @ 30 deg. C
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Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, dust generation, incompatible materials, water
Incompatibility with various substances	Reactive with reducing agents, combustible materials, organic materials. Slightly reactive to reactive with moisture.
Corrosivity	Not available.
Special Remarks on Reactivity	Reacts with ammonia or amines to produce nitrogen trichloride. Reacts with most reducing agents. Reacts with water, releasing chlorine gas and nitrogen trichloride. Reacts with combustible materials, ammonium salts. Reacts with sodium carbonate (soda ash) Reacts with other strong oxidizers such as calcium hypochlorite, hydrogen peroxide.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 1420 mg/kg [Rat].
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).
Special Remarks on Toxicity to Animals	Lowest Published Lethal Dose: LDL[Human] - Route: Oral; Dose: 3570 mg/kg. LDL[Rabbit] - Route: Skin; Dose: 3160 mg/kg LDL[Rabbit] - Route: Oral; Dose: 2500 mg/kg
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Causes skin irritation which can be mild to severe. The irritation may be more severe if the skin is abraded or moist/wet. Eyes: Causes moderate eye irritation. Inhalation: Can cause respiratory tract (nose, throat) irritation with coughing and wheezing, and bronchospasm. Ingestion: Causes gastrointestinal tract irritation with lacrimation, and diarrhea. May cause ulceration or bleeding from the stomach. May affect respiration(dyspnea, acute pulmonary edema), liver (liver dysfunction, congestion in liver), behavior/central nervous system (somnolence, coma, weakness).


Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Section 14. Transport Information

DOT Classification	CLASS 5.1: Oxidizing material.
Identification	: Dichloroisocyanuric acid salt UNNA: 2465 PG: II
Special Provisions for Transport	Not available.
DOT (Pictograms)	

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	Connecticut hazardous material survey.: Dichloroisocyanuric Acid Sodium Salt Rhode Island RTK hazardous substances: Dichloroisocyanuric Acid Sodium Salt Pennsylvania RTK: Dichloroisocyanuric Acid Sodium Salt Massachusetts RTK: Dichloroisocyanuric Acid Sodium Salt New Jersey: Dichloroisocyanuric Acid Sodium Salt TSCA 8(b) inventory: Dichloroisocyanuric Acid Sodium Salt		
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.		
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.		
Other Classifications	WHMIS (Canada)	CLASS C: Oxidizing material. CLASS D-2B: Material causing other toxic effects (TOXIC).	
	DSCL (EEC)	R8- Contact with combustible material may cause fire. R22- Harmful if swallowed. R31- Contact with acids liberates toxic gas. R36/37- Irritating to eyes and respiratory system. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic	S8- Keep container dry. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S41- In case of fire and/or explosion do not breathe fumes. 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.

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environment.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	1
Personal Protection	E

National Fire Protection Association (U.S.A.)

Health



Flammability

Reactivity

Specific hazard

WHMIS (Canada)
(Pictograms)DSCL (Europe)
(Pictograms)TDG (Canada)
(Pictograms)ADR (Europe)
(Pictograms)

Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section 16. Other Information**MSDS Code** D0243**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

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CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.