



**PhytoTechnology
Laboratories®**

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Dichloroisocyanuric Acid, Sodium Salt
PRODUCT NUMBER: D253
COMPANY INFO: *PhytoTechnology Laboratories®*
PO Box 12205, Shawnee, KS 66282-2205
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories®* are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

- H272 – Oxidizing solids (Category 2)
- H302 – Acute toxicity, Oral (Category 4)
- H314 – Skin corrosion (Category 1A)
- H318 – Serious eye damage (Category 1)
- H400 – Acute aquatic toxicity (Category 1)
- H410 – Chronic aquatic toxicity (Category 1)

GHS Label elements, including hazard and precautionary statements:



Signal Word: **Danger**

Hazard Statements:

- H272 – May intensify fire; oxidizer.
- H302 – Harmful if swallowed.
- H314 – Causes severe skin burns and eye damage.
- H410 – Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

- P210 – Keep away from heat.
- P260 – Do not breathe dust.
- P273 – Avoid release to the environment.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- P305 + P351 + P338 + P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Sodium dichloroisocyanurate
CAS No.: 2893-78-9
Formula: $C_3Cl_2N_3O_3Na$
Molecular Weight: 219.95 g/mol
EC No.: 220-767-7

Ingredient	CAS Number	Percent	Hazardous
Dichloroisocyanuric Acid, Sodium Salt	2893-78-9	93%	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas, sodium oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Keep away from heat and sources of ignition. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Moisture sensitive. Do not store near acids.

Incompatibilities: Strong bases, strong oxidizing agents

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Use N95 (US) or type P1 (EN 143) dust mask.
A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

pH: No data available

Solubility: Soluble in water

Melting Point: 230 °C (Dec)

Vapor Density: No data available

Vapor Pressure: < 0.000 hPa (< 0.000 mmHg) at 20 °C (68 °F)

Odor: Chlorine or pungent odor

Odor Threshold: No data available

Viscosity: No data available

Relative Density: 1.97 g/cm³ at 25 °C (77 °F)

Evaporation Rate: No data available

Initial Boiling Point and Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient: No data available
n-octanol/water):

Auto-ignition Temperature: No data available

Decomposition Temperature: 240 °C (464 °F)

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: May produce chlorine gas in contact with water.

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Excessive heat, ignition sources, moisture

Incompatibles Materials: Strong bases, strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas, sodium oxides

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):	1420
	LD ₅₀ (Oral-Mouse)(mg/Kg):	No data available
	LD ₅₀ (Dermal-Rabbit)(mg/Kg):	No data available
Carcinogenicity:	NTP:	No
	IARC:	No
	Z List:	No
	OSHA Reg:	No
Reproductive Toxicity:	Developmental Toxicity - Mouse - Oral Specific Developmental Abnormalities: Musculoskeletal system. Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Physical.	
Symptoms Associated with Overexposure:	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., cough, shortness of breath, headache, nausea	
Specific Target Organ Toxicity:	Single Exposure:	No data available
	Repeated Exposure:	No data available
Target Organs:	None identified	
Medical Conditions Aggravated By Exposure:	None identified	
Routes of Entry:	Inhalation, Ingestion	
NIOSH/RTECS NO:	XZ1900000	

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Toxicity to fish - LC50 - Lepomis macrochirus (Bluegill) - 0.283 mg/l - 96 h	
	Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia magna (Water flea) - 0.15 mg/l - 48 h	
Persistence and Degradability:	No data available	
Bioaccumulative Potential:	No data available	
Mobility in Soil:	No data available	
Other Adverse Effects:	Very toxic to aquatic life.	

13. DISPOSAL CONSIDERATION

Disposal Procedure:	Dispose in accordance with all applicable federal, state, and local environmental regulations.	
EPA Hazardous Waste Number:	No data available	

14. TRANSPORT INFORMATION

Domestic (D.O.T.):	Proper Shipping Name:	Dichloroisocyanuric acid salts	
	Hazard Class:	5.1	Packing Group: II
	UN:	2465	
	Marine pollutant:	No	
	Poison inhalation hazard:	No	

International:

IMDG: Proper Shipping Name: Dichloroisocyanuric acid salts
 Hazard Class: 5.1 Packing Group: II EMS-No.: F-A, S-Q
 UN: 2465
 Marine pollutant: No

IATA: Proper Shipping Name: Dichloroisocyanuric acid salts
 Hazard Class: 5.1 Packing Group: II
 UN: 2465

15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No
 Section 313 Ingredients: No
 Section 304 (EHS/CERCLA) Ingredients: No
 Section 311/312 Hazard: Reactivity Hazard, Acute Health Hazard

Massachusetts Right to Know Components: CAA No.: 2893-78-9 Troclosesene sodium

Pennsylvania Right to Know Components: CAA No.: 2893-78-9 Troclosesene sodium

New Jersey Right to Know Components: CAA No.: 2893-78-9 Troclosesene sodium

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	3		0	2
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	3	0	2	OX

PhytoTechnology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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