

# SAFETY DATA SHEET

## SECTION 1 MATERIAL NAME / IDENTIFIER

**Stabilized Granular Chlorine, Chloraid  
Dichlor, Spa Chlor (ACI 60%)**

**WHMIS: It is not regulated under WHMIS. It is regulated  
under the Pest Control Product Act (PCP).**

**Manufacturer's Name:** CAPO INDUSTRIES LTD  
**Street Address:** 1200 CORPORATE DRIVE  
**City:** BURLINGTON, ONTARIO  
**Postal Code:** L7L 5R6  
**Phone Number:** (905) 332-6626 (non-Transport)

**Emergency Telephone:** Canutec (613) 996-6666 (Collect)(Transport)

**Chemical Name:** Sodium Dichloro-S-Triazinetrione  
**Chemical Family:** Chlorinated Isocyanurate  
**Chemical Formula:**  $C_3N_3O_3Cl_2Na$   
**Trade Name & Synonyms:** Dichloroisocyanuric Acid Sodium Salt  
**Molecular Weight:** 220  
**Material Use:** Pool water disinfectant

## SECTION 2 HAZARDS IDENTIFICATION

**GHS classification:** Oxidizing solids, Category 2  
Acute toxicity, Oral, Category 4  
Skin corrosion/irritation, Category 1C  
Serious eye damage/eye irritation, Category 1  
Acute toxicity, Inhalation, Category 3  
Hazardous to the aquatic environment, Chronic hazard, Category 1

**Symbol(s)**



**Signal Word** Danger

**Hazard statements** H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H331 Toxic if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.  
No smoking.  
P220 Keep away from clothing and other combustible materials.  
P260 Do not breathe dust.

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P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P317 IF SWALLOWED: Get medical help.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+P361+P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P316 Get emergency medical help immediately.  
P321 Specific treatment (see first aid on this label).  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use large amounts of water to extinguish.  
P391 Collect spillage.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local regulations.

**Hazards Not Otherwise Classified (HNOC)** Damp or wet material may generate nitrogen trichloride, an explosion hazard. Heating over 115°C (239°F) may initiate a self-sustaining decomposition which releases large amounts of heat and gas including toxic fumes. Decomposes at temperatures above 210°C (410°F) with liberation of harmful gases. Contact with acids liberates toxic gas.

## SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Sodium Dichloroisocyanuric Acid, Sodium Salt	2893-78-9	60 - 100

## SECTION 4 FIRST AID MEASURES

<b>Inhalation:</b>	IF INHALED: Remove person to fresh air and keep at rest in a comfortable position for breathing. Get medical help.
<b>Skin Contact:</b>	IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Get medical help immediately.
<b>Eye Contact:</b>	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help immediately.
<b>Ingestion:</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical help.

### Most Important Systems/Effects (Acute and Delayed):

#### Acute Symptoms/Effects:

**Inhalation (Breathing):** Respiratory System Effects. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after severe acute exposure. Please refer to Section 11 for additional information.

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**Skin:** Skin Corrosion. Exposure to solid along with moisture may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

**Eye:** Serious eye damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to internal eye structures.

**Ingestion (Swallowing):** Gastrointestinal Effects. Exposure by ingestion may cause irritation, nausea, and vomiting. May cause local tissue damage to esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.

**Delayed Symptoms/Effects:**

Repeated and prolonged skin contact may cause dermatitis.

**Note to physicians:** Treat as a corrosive substance. This material is more irritating to the skin and eyes in the presence of water. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Cyanuric acid is readily removed from the body via the renal system and is not bioaccumulated. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation.

**Interaction with Other Chemicals Which Enhance Toxicity:** Contact with acids liberates toxic gas.

**Medical Conditions Aggravated by Exposure:** May aggravate preexisting conditions such as eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin; and Respiratory conditions including asthma and other breathing disorders.

## SECTION 5 FIRE – FIGHTING MEASURES

**Hazardous Combustion Products:**

Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, and phosgene.

**Unusual Fire or Explosion Hazards:**

It is a Class 2 Oxidizer. Class 2 Oxidizers will increase the burning rate of combustible materials with which they come in contact. In addition, they may cause spontaneous ignition when in contact with a combustible material. If heated by outside source to temperatures above 210°C (410°F), this product will undergo decomposition with the evolution of noxious gases but no visible flame. Wet material may generate nitrogen trichloride, an explosion hazard.

**Sensitivity to Mechanical Impact:** Not sensitive

**Sensitivity to Static Discharge:** Not sensitive

**Fire Extinguishing Media:** Flood with copious amounts of water only.

**Instructions to the Fire Fighters:**

Consider evacuation of personnel located downwind. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. DO NOT attempt to reseal contaminated drums. Damp material should be neutralized to a non-oxidizing state.

**Fire Fighting Protective Equipment:**

Wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode.

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## SECTION 6

## ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures:

Keep unnecessary and unprotected persons away. Isolate hazard area and deny entry. Do not get in eyes, on skin or on clothing. Do not breathe dust, fume, gas, mist, vapours, or spray. Wear appropriate personal protective equipment recommended in Section 8. Evacuate unnecessary personnel and eliminate all sources of ignition. Prevent material and runoff from entering sewers and waterways if it can be done safely well ahead of the release.

### Environmental Precautions:

This material is very toxic to aquatic life with acute and long-lasting effects. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

### Methods and Materials for Containment and Cleaning Up:

DO NOT add water to spilled material. DO NOT use floor sweeping compounds to clean up spills. Sweep and scoop spilled material into clean, dedicated equipment. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. DO NOT attempt to reseal contaminated drums. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state.

## SECTION 7

## HANDLING AND STORAGE

### Precautions for Safe Handling:

Do not get in eyes, skin or on clothing. Avoid breathing dust and avoid creating dust. Wash hands thoroughly with soap and water after use. Wear appropriate personal protective equipment. Never add water to this product. Always add product to large quantities of water. Use clean, dry utensils. Do not add the product to any dispensing device containing residuals of other products. Take precautions to avoid mixing with combustible or incompatible materials.

### Conditions for Safe Storage:

Store in a cool, dry, well-ventilated area. Keep away from incompatible materials. Do not allow water to get into containers. Keep containers tightly closed when not in use.

## SECTION 8

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters:

This product does not contain any components that have regulatory occupational exposure limits established.

### Appropriate Engineering Controls:

Use only in well-ventilated areas. Provide local exhaust ventilation where dust or mist may be generated.

### Individual Protection Measures:

**Skin Protection:** Wear appropriate chemical resistant gloves.

**Eye/Face Protection:** Wear safety glasses with side-shields or chemical safety goggles.

**Respiratory Protection:** Use NIOSH/MSHA approved dust or vapour mask when airborne exposure limits are exceeded.

### Other:

Protective clothing if contact is likely. Wear disposable coveralls suitable for dust exposure. Eye wash and shower stations close to work area.

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## SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State:	Gas	Liquid	Solid	<u>X</u>
Odour & Appearance:	White, granular, chlorine odour.			
Odour Threshold (ppm):	Not applicable			
Flammability:	Yes	No	<u>X</u>	
If Yes, Under Which Conditions?:				
Auto Ignition Temperature (Celsius):	Not determined			
Upper and Lower Flammability or Explosive Limit:	Not flammable			
Decomposition Temp (°C)	Decomposes above 210°C			
Relative Density:	1.98g/ml @25°C			
Viscosity:	Not applicable			
Vapour Pressure (mm):	<0.06 Pa@20°C			
Vapour Density (Air-1):	Not applicable			
Flashpoint (°C)	Not applicable			
Evaporation Rate	Not applicable			
Boiling Point (°C):	Not applicable			
Freezing Point (°C):	Not applicable			
Solubility In Water (20°C):	24.3 g/100 g H <sub>2</sub> O @25°C			
PH:	6 - 7 (1% solution)			
Partition Coefficient (n-octanol/water):	Kow=0			

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal temperatures and pressures.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:**

Do not get water inside container. Wet material may generate nitrogen trichloride, an explosion hazard. Avoid contact with easily oxidizable organic material. Contact with acids liberates toxic gas.

**Incompatibility To Other Substances:**

Acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents, and compounds.

**Conditions to Avoid:**

Do not get water inside container. Wet material may generate nitrogen trichloride, an explosion hazard. Avoid contact with easily oxidizable organic material. Contact with acids liberates toxic gas.

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## Hazardous Decomposition Products:

Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, and phosgene.

## SECTION 11

## TOXICOLOGICAL INFORMATION

### ACUTE HEALTH EFFECTS

#### Inhalation:

Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

#### Skin Contact:

Skin corrosion. Exposure to solid along with moisture may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

#### Eye Contact:

Serious eye damage. Exposure to eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eye.

#### Ingestion:

Exposure by ingestion may cause irritation, nausea, and vomiting. May cause local tissue damage to esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.

**CHRONIC HEALTH EFFECTS:** None known

**LD<sub>50</sub> Oral:** 1823 mg/kg, Oral (Rat)

**LD<sub>50</sub> Dermal:** >2000 mg/kg, Dermal (Rabbit)

**LC<sub>50</sub> Inhal:** 0.27 0 1.17 mg/l (4h - Rat), 0.6 mg/l (4h – Rat)

**Irritancy of Material** Severe skin and eye irritant.

**Sensitization of Material** None known

**Synergistic Materials** None known

**Carcinogenicity:** This product is not classified as a carcinogen by NTP, IARC or OSHA.

**Mutagenicity, Metabolism, Neurotoxicity Reproductive Effects, Teratogenicity:** Not available

## SECTION 12

## ECOLOGICAL INFORMATION

### Ecotoxicity

#### Fish Toxicity:

**96 h LC<sub>50</sub>, Fish** 0.13-0.36 mg/l (rainbow trout)  
0.25-1.0 mg/l (bluegill sunfish)  
1.21 mg/l (inland silversides)

#### Invertebrate Toxicity:

**48 h LC<sub>50</sub>** 0.196 mg/l (water flea)  
**96 h LC<sub>50</sub>** 1.65 mg/l (mysid shrimp)

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## Other Toxicity:

Oral LD50, Bobwhite quail No data  
Oral LD50, Mallard duck 1916 mg/kg  
Dietary LC50, Mallard duck >10000 ppm  
Dietary LC50, Bobwhite quail >10000 ppm

## Environmental Fate

### Biodegradability:

Chlorinated isocyanurates react with water to form hypochlorous acid and isocyanuric acid. Hypochlorous acid is rapidly destroyed by natural substances present in the water or environment. Isocyanuric acid biodegrades very slowly under aerobic conditions.

### Bioaccumulative Potential:

No bioaccumulation data is available for isocyanuric acid in fish or aquatic organisms, but it is not expected to bioaccumulate due to its low octanol-water partition coefficient (0.67).

### Mobility In Soil:

The soil partition coefficient is a measure of a compound's tendency to partition to soils and sediments. Isocyanuric acid should be considered highly mobile and not strongly absorbed onto soil.

### Other Adverse Effects:

This product is very toxic to fish and aquatic organisms. This product is very toxic to aquatic life with long-lasting effects.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose dry material in accordance with all federal, provincial, and local regulations.

**Safe Handling of Residues:** See above.

**Disposal of Packaging:** Empty containers should be disposed in accordance with all federal, provincial, and local regulations.

## SECTION 14 TRANSPORTATION INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
TDG	2465	Dichloroisocyanuric Acid, Dry	5.1	II
US DOT	2465	Dichloroisocyanuric Acid, Dry	5.1	II
IMDG-IMO	2465	Dichloroisocyanuric Acid, Dry	5.1	II
ICAO/IATA	2465	Dichloroisocyanuric Acid, Dry	5.1	II

**Special Precautions** 1 kg and under are LIMITED QUANTITY

**Environmental Hazards** Marine Pollutant

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## SECTION 15 REGULATORY INFORMATION

**CANADA** All components are listed on the DSL or the NDSL.  
**PCP** This product is a registered pesticide.

**USA** All components of this substance are listed or exempt from the TSCA inventory.  
**FIFRA** This product is registered under FIFRA.

**SARA (311,312)** This product is categorized as an acute health hazard, and fire and reactivity physical hazard.

**Rhode Island, Massachusetts, and Pennsylvania Right-to-Know Hazardous Substances Lists:** Listed.

**California Prop 65 List:** Not Listed.

**New Jersey Right-to-Know Hazardous Substances List:** 1694

**INTERNATIONAL** Not available

## SECTION 16 OTHER INFORMATION

**Prepared By (Group, Department, Etc.):** Quality Assurance                      **Telephone:** (905) 332-6626

**Preparation Date:** January 1, 1996

**Date Revised:** June 22, 2021

**Additional Notes or References:**

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