

SAFETY DATA SHEET

SECTION 1

MATERIAL NAME / IDENTIFIER

Chlor Aid - Stabilized Granular Chlorine

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

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

Chemical Name: Sodium Dichloro-S-Triazinetrione Dihydrate
Chemical Family: Chlorinated Isocyanurate
Chemical Formula: $\text{NaCl}_2 (\text{NCO})_3 \cdot 2\text{H}_2\text{O}$
Trade Name & Synonyms: Dichloroisocyanuric Acid Sodium Salt Dihydrate
Molecular Weight: 256
Material Use: Pool water disinfectant

SECTION 2

HAZARDS IDENTIFICATION

GHS classification: Acute toxicity, Oral, Category 4
Serious eye damage/eye irritation, Category 2
Specific target organ toxicity, Single exposure, Respiratory tract irritation, Category 3
Hazardous to the aquatic environment, Acute hazard, Category 1
Hazardous to the aquatic environment, Long-term hazard, Category 1

Symbol(s)



Signal Word

Warning

Hazard statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

SAFETY DATA SHEET

Precautionary statements

P261 Avoid breathing dust.
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+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P330 Rinse mouth.
P337+P313 If eye irritation persists: Get medical advice/attention.
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.

NFPA: 2 Health, 0 Fire, 1 Reactivity Special Hazard Warning: OXIDIZER.

HMIS: 3 Health, 0 Fire, 1 Reactivity

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Sodium Dichloroisocyanurate Dihydrate	51580-86-0	50 – 100

SECTION 4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

SAFETY DATA SHEET

- Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Note to physicians** Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically and supportively.

SECTION 5 FIRE – FIGHTING MEASURES

- Hazardous Combustion Products:** Chlorine, carbon monoxide and nitrogen trichloride.
- Unusual Fire or Explosion Hazards:** When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine and carbon monoxide.
- Sensitivity to Mechanical Impact:** None
- Rate of Burning:** Not applicable
- Explosive Power:** Not applicable
- Sensitivity to Static Discharge:** None
- Fire Extinguishing Media:** Water only
- Instructions to the Fire Fighters:** Cool containers with water spray. On small fires, use water spray or fog. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished.
- Fire Fighting Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** For small spills in a well-ventilated area, wear a NIOSH approved half-face or full face tight fitting respirator or a loose fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using a half-face respirator. In addition to respiratory protection, wear coveralls, chemical resistant gloves, chemical resistant footwear, and chemical resistant headgear for overhead exposure. For clean-up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering entire body to prevent personal contact with material. CAUTION – If this

SAFETY DATA SHEET

material becomes wet/damp or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Leak and Spill Procedure:

Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur. Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container. This material is heavier than and soluble in water. Stop flow of material into water as soon as possible. Begin monitoring for available chlorine and pH immediately. Vapours may be suppressed by the use of water fog.

SECTION 7

HANDLING AND STORAGE

HANDLING

Handling Practices:

Do not take internally. Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after use.

Ventilation Requirements:

Local exhaust ventilation.

STORAGE

Ventilation Requirements:

Store in a cool, dry, well-ventilated area.

Storage Requirements:

Do not store at temperatures above 60°C/140°F. 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

ENGINEERING CONTROLS

Engineering Controls:

Local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify):

Neoprene gloves if skin contact is likely.

Eye (Specify):

Safety glasses if skin contact is likely.

Respiratory (Specify):

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

Other (Specify):

Impervious body covering clothes, boots and neoprene apron. Eye wash and shower stations close to work area.

SAFETY DATA SHEET

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 self-ignitable.			
Upper Explosion Limit (% By Volume):	Not determined			
Lower Explosion Limit (% By Volume):	Not determined			
Decomposition Temp (°C)	240 - 250°C			
Specific Gravity:	0.982 g/ml			
Viscosity:	Not applicable			
Vapour Pressure (mm):	Not applicable			
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):	24-25 g/100 g			
% Volatile (By Weight)	Not applicable			
PH:	6-6.5 (1% solution)			
Coefficient Of Water/Oil Distribution:	Not available			

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	Yes	<u>X</u>	No
If No, Under Which Conditions?:			
Incompatibility To Other Substances:	Yes	<u>X</u>	No
If So, Which Ones:	Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds.		
Conditions to Avoid:	Heating above decomposition temperature. Do not package in paper or cardboard. If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an		

SAFETY DATA SHEET

explosive condition may exist.

Hazardous Decomposition Products: Nitrogen trichloride, chlorine, and carbon monoxide.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Dust may cause eye, nose, throat and respiratory irritation. It may also cause burns to the respiratory tract with the production of lung edema that can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function.

Skin Contact: Causes severe irritation and/or burns characterized by redness, swelling and scab formation.

Eye Contact: Severe irritation and/or burns can occur. Contact may cause impairment of vision and corneal damage.

Ingestion: Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation.

CHRONIC HEALTH EFFECTS: Prolonged skin exposure may cause permanent damage. Inhalation of high concentrations can result in permanent lung damage from the corrosive action of the lung.

Other Health Effects: Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically and supportively.

LD 50 of Material (Specify Species and Routes): 1671 mg/kg, Oral (Rat), >5000 mg/kg, Dermal (Rat)

LC 50 of Material (Specify Species and Routes): Not available

Exposure (Limits): Not available

Irritancy of Material Skin, eyes, nose, throat and respiratory tract irritant.

Sensitization of Material None known

Specific Target Organ Toxicity (STOT) - Single Exposure: No data available

Specific Target Organ Toxicity (STOT) – Repeated Exposure: Chronic inhalation exposure may cause impairment of lung function and permanent lung damage. In the 28 day extended to 59 day study drinking water study (rat): NOAEL = 115 mg/kg bw/day.

Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None known

SAFETY DATA SHEET

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

96 h LC50, Fish 0.22 mg/l (rainbow trout)
 0.28 mg/l (bluegill sunfish)
48 h LC50, Daphnia magna 0.2 mg/l

Avian Toxicity:

Oral LD50, Bobwhite quail 730 mg/kg
Oral LD50, Mallard duck 3300 mg/kg
Dietary LC50, Mallard duck >10000 ppm
Dietary LC50, Bobwhite quail >10000 ppm

Environmental Fate

Biodegradability: Not readily biodegradable. Rapidly hydrolyzes in water into Cyanuric acid.
Bioaccumulative Potential: Not expected to bioaccumulate
Mobility In Soil: The degradation product, Cyanuric acid, is weakly adsorbed to and highly mobile in all soils.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose dry material in accordance to all federal, provincial, and local regulations.
Safe Handling of Residues: See above.
Disposal of Packaging: Empty containers should be disposed in accordance to all federal, provincial, and local regulations.

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION: Not regulated for road transportation.

Proper shipping name: Not applicable
Class: Not applicable
Packing group: Not applicable
UN: Not applicable
Marking: Not applicable

US DOT CLASSIFICATION (49CFR 172.101, 172.102): Not regulated for road transportation.

SAFETY DATA SHEET

Proper shipping name: Not applicable
Class: Not applicable
Packing group: Not applicable
UN: Not applicable
Marking: Not applicable

SECTION 15 REGULATORY INFORMATION

CANADA All components of this substance are listed or exempt on the DSL.

PCP This product is a registered pesticide.

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

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

Massachusetts and Pennsylvania Right-to-Know Hazardous Substances Lists: Listed.

California Prop 65 This product does not contain any ingredient known to the State of California to cause cancer or reproductive toxicity as listed under the State drinking Water and Toxic Enforcement Act of 1986.

Waste Classifications If this product becomes a waste as defined under 40 CFR 261, it may meet the criteria of a hazardous waste. Please check with all federal, state and local regulations to determine if this product meets the definition of a hazardous waste listed under 40 CFR 262.11.

Workplace Classification This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

INTERNATIONAL

EU Reported in EINECS

Japan ENCS no. (5)-1043, ISHL no. (5)-1043

Australia, New Zealand Inventory, China Inventory, and Philippines Listed

SAFETY DATA SHEET

SECTION 16

OTHER INFORMATION

Prepared By (Group, Department, Etc.):

Quality Control

Telephone:

(905) 332-6626

Preparation Date:

April 6, 2015

Date Revised:

December 1, 2020

Additional Notes Or References:

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