

SAFETY DATA SHEET

SECTION 1 MATERIAL NAME / IDENTIFIER

Chlorine Tabs / Super Sticks WHMIS: C, D1B, D2B

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: Trichloro-s-triazinetriene
Chemical Family: Chloroisocyanurates
Chemical Formula: C3 Cl3 N3 O3
Trade Name & Synonyms: Trichloroisocyanuric Acid, TCCA, Trichlor
Molecular Weight: 232.41
Material Use: Pool or Spa water chlorination

SECTION 2 HAZARDS IDENTIFICATION

GHS classification: Oxidizing solid, Category 2
Acute toxicity, Oral, Category 4
Skin corrosion/irritation, Category 1C
Acute toxicity, Inhalation, Category 2
Specific target organ toxicity, Single exposure, Respiratory tract irritation, Category 3
Hazardous to aquatic environment, long-term 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.

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H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long-lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing and combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe 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.

P284 In case of inadequate ventilation wear respiratory protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for 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.

P310 Immediately call a POISON CENTER or doctor.

P320 Specific treatment is urgent (see first aid on this label).

P363 Wash contaminated clothing before use.

P370+P378 In case of fire: Use water spray for extinction.

P391 Collect spillage.

P403+P233 Store in a well-ventilated area. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

NFPA: 3 Health, 0 Fire, 2 Reactivity Special Hazard Warning: OXIDIZER

HMIS: 3 Health, 0 Fire, 2 Reactivity

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SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
Trichloro-s-triazinetriene	87-90-1	99.0

SECTION 4 FIRST AID MEASURES

Inhalation:	Remove person to fresh air. If person is not breathing, give artificial respiration, by mouth to mouth if possible. Contact a physician
Skin Contact:	Take off contaminated clothing. Wash skin thoroughly with soap and water for 15 minutes. Seek medical attention.
Eye Contact:	Flush eyes with plenty of water for 15 minutes. Seek medical attention.
Ingestion:	Drink 2 or 3 glasses of water, rinse mouth. Do not give anything to an unconscious person. Do not induce vomiting, unless directed to do so by a doctor. Contact a physician immediately.
Note to physicians	Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive. Treat symptomatically and supportively.

SECTION 5 FIRE – FIGHTING MEASURES

Hazardous Combustion Products:	Small quantities of water will react with this material which will form nitrogen trichloride, which is violently explosive.
Unusual Fire or Explosion Hazards:	When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide and carbon dioxide.
Sensitivity to Mechanical Impact:	None
Rate of Burning:	Not applicable
Explosive Power:	Not applicable
Sensitivity to Static Discharge:	None
Fire Extinguishing Media:	Water only. Large amounts of water may be needed and the flow of water should not be stopped until the fire/reaction has stopped.
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:	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode.

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SECTION 6

ACCIDENTAL RELEASE MEASURES

Leak And Spill Procedure: Prevent spillage from contaminating soil or entering waterways, sewers, drains and confined areas. If material is spilled, clean up as soon as possible to prevent contamination with a material with which it will react. Keep spilled material dry. Sweep up and place material in a dry, clean and labeled container.

SECTION 7

HANDLING AND STORAGE

HANDLING

Handling Practices: Avoid skin, eye and clothing contact. Wash hands thoroughly with soap and water after handling.

Ventilation Requirements: Local exhaust ventilation.

STORAGE

Ventilation Requirements: Store in a cool, dry and well ventilated area away from incompatible materials.

Storage Requirements: Do not store material at temperatures above 60°C/140°F. Available chlorine loss can be as little as 0.1% per year at ambient temperatures. Do not allow water to get into container. 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): Nitrile or neoprene gloves if skin contact is likely.

Eye (Specify): Safety goggles/glasses or face shield if eye contact is likely.

Respiratory (Specify): Use NIOSH/MSHA approved dust or vapour mask when airborne exposure limits are exceeded. An approved respirator with an acid gas (for chlorine) and dust prefilter may be adequate.

Other (Specify): Body covering clothes and boots. Safety shower and eye wash stations are 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 opaque tablets, chlorine odour			
Odour Threshold (ppm):	Not available			
Flammability:	Yes	No	<u>X</u>	
If Yes, Under Which Conditions?:				
Auto Ignition Temperature (Celsius):	Not applicable			
Upper Explosion Limit (% By Volume):	Not applicable			
Lower Explosion Limit (% By Volume):	Not applicable			
Decomposition Temp (°C)	225°C			
Specific Gravity:	Not applicable			
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):	Soluble			
% Volatile (By Weight)	Not applicable			
PH:	2.7 – 3.3 (1% solution)			
Coefficient Of Water/Oil Distribution:	Not applicable			

SECTION 10

STABILITY AND REACTIVITY

Chemical Stability:	Yes	No	<u>X</u>	
If No, Under Which Conditions?:	Stable when dry. Reacts non-violently with water to form a bleach solution.			
Incompatibility To Other Substances:	Yes	<u>X</u>	No	
If So, Which Ones:	Avoid contact with water on concentrated forms of this material. Avoid contact with easily oxidizable organic materials – ammonia, urea or similar nitrogen containing compounds, inorganic reducing compounds, calcium hypochlorite and alkalis. Also other isocyanurates.			
Conditions to Avoid:	Contamination can cause spontaneous combustion at room temp.			

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Hazardous Decomposition Products: Chlorine gas and traces of phosgene can be liberated at temperatures greater than 225°C.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS

Inhalation: Irritation or burns to mucous membranes and respiratory tract.

Skin Contact: Irritation and may cause burns.

Eye Contact: Irritation and may cause burns.

Ingestion: Irritation or burns to the gastrointestinal tract.

CHRONIC HEALTH EFFECTS: Prolonged exposure may cause damage to the respiratory system. Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.

Other Health Effects: Asthma, respiratory and cardiovascular diseases.

LD 50 of Material (Specify Species and Routes): 406 mg/kg, Oral (Rat), >2000 mg/kg, Dermal (Rabbit)

LC 50 of Material (Specify Species and Routes): 0.09-0.29 mg/l, Inhalation (Rat)

Exposure (Limits): Chlorine – TWA: 0.5 ppm, STEL: 1 ppm

Irritancy of Material Strong irritant to skin, eye, nose and throat.

Sensitization of Material None

Synergistic Materials None known

Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity: None

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic toxicity:

96 h LC50, Fish 0.13-0.5 mg/l (Lepomis macrochirus)

48 h LC50, Daphnia magna 0.21 mg/l

Environmental Fate

Biodegradability: Material is subject to hydrolysis. Acids produced by hydrolysis are biodegradable.

Bioaccumulative Potential: Not expected to bioaccumulate in the aquatic environment.

Mobility In Soil: Expected to be highly mobile in soil.

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SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance to all applicable federal, provincial and local laws and regulations.

Safe Handling of Residues: See above

Disposal of Packaging: See above

SECTION 14

TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group: II

UN: 2468

1 kg and under are LIMITED QUANTITY

US DOT CLASSIFICATION (49CFR 172.101, 172.102)

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group: II

UN: 2468

Emergency Guide No. 140

IMDG

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group: II

UN: 2468

EmS No: F-A, S-Q

IATA/ICAO

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

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Label: Oxidizing substances (5.1)

Packing Group: II

UN: 2468

ERG No: 5L

For shipments by vessel or bulk quantities (>882 pounds) by motor vehicle or aircraft, add "Marine Pollutant (Trichloroisocyanuric Acid)" to shipping description and label containers with Marine Pollutant markings.

SECTION 15 REGULATORY INFORMATION

CANADA Listed in DSL

WHMIS: C, D1B, and D2B

USA Reported in the EPA TSCA Inventory.

EPA Registration No. 83936-3

Emergency overview in accordance to EPA Master Label:

Danger. Hazards to humans and domestic animals. Highly corrosive. Causes irreversible damage or skin burns. May be fatal if inhaled, or absorbed through skin. Strong oxidizing agent. This pesticide is toxic to fish and aquatic organisms.

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

Massachusetts, New Jersey and Pennsylvania Right to Know Lists: Listed

INTERNATIONAL

Australia, China, and Korea: Listed on their chemical inventory lists.

SECTION 16 OTHER INFORMATION

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

Preparation Date: January 1, 1996

Date Revised: December 1, 2016

Additional Notes Or References:

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