SECTION 1 MATERIAL NAME / IDENTIFIER

MINI TABS 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-triazinetrione

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 is swallowed.

H314 Causes severe skin burns and eye damage.

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

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient CAS# % Concentration

Trichloro-s-triazinetrione 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.

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.

SECTION 9 PHYSICAL DATA FOR MATERIAL

Physical State: Gas Liquid Solid X

Odour & Appearance: White opaque tablets, chlorine odour

Odour Threshold (ppm): Not available

Flammability: Yes No X

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 X

If No, Under Which Conditions?: Stable when dry. Reacts non-violently with water to form a bleach

solution.

Incompatibility To Other Substances: Yes \underline{X} 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.

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.

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:

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:

UN: 2468

Emergency Guide No. 140

IMDG

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group:

UN: 2468

EmS No: F-A, S-Q

IATA/ICAO

Proper shipping name: Trichloroisocyanuric Acid - Dry

Class: 5.1

Label: Oxidizing substances (5.1)

Packing Group:

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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