

MATERIAL SAFETY DATA SHEET

Product Name **Pool Season Chlorinating Tablets 1"**
Product id EPA Reg. No. 69470-26-71141
Revision date 29/07/2003

Revision: 1

1. Identification of the substance & the company

Chemical name Trichloro-s-triazinetrione
Synonym(s) Trichloroisocyanuric Acid; TCCA; Trichlor; Trichloro-s-triazinetrione; Symclosene
Chemical formula $C_3Cl_3N_3O_3$
Chemical family Chloroisocyanurate
Molecular weight 232.5
Type of product and use For formulation into end-use products intended for disinfectants, sanitizers, fungicides, bactericides and algacides for pools, spas, hot tubs, industrial recirculating water cooling towers, air washers and evaporative condensers, sewage treatment, food contact surfaces, laundry and egg sanitizing
Supplier Superior Pool Products, LLC
109 Northpark Blvd., 4th Floor, Covington, LA 70433
Tel: (985) 892-5521
Emergency Telephone Chemtrec (800)424-9300

2. Composition / information on ingredients

Components	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
TRICHLOROISOCYANURIC ACID 87-90-1	96-100	Not determined	Not Determined
DICHLOROISOCYANURIC ACID 2782-57-2	0-4	Not determined	Not determined

3. Hazards identification

Emergency overview *White granular solid or tablet-form product
Oxidizer
Corrosive to eyes, skin and mucous membranes.
Harmful by inhalation and if swallowed.*

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Potential Health Effects:

- **Eye Contact** Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.
- **Skin contact** Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Repeated skin exposure may cause tissue destruction due to the corrosive nature of the product.
- **Inhalation** Irritating to the nose, mouth, throat and lungs. 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. Inhalation of high concentrations can result in permanent lung damage from the corrosive action of the lung.
- **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.

NFPA Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 2.
Special Hazard Warning: OXIDIZER

HMIS Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 2.

4. First-aid measures

- Eye contact** Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.
- Skin contact** Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention immediately.
- Inhalation** In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

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Ingestion If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately.

NOTE: Never give an unconscious person anything to drink.

Notes to the physician

Corrosive

In case of ingestion DO NOT induce vomiting.

No specific antidote. Treat symptomatically and supportively.

Medical conditions aggravated by exposure

Asthma, respiratory and cardiovascular disease.

5. Fire - fighting measures

Flash point

Not applicable

Auto-ignition temperature

Not applicable

Suitable extinguishing media

Water

Extinguishing media not to be used

Do not use dry chemical extinguisher containing ammonia compounds.

Fire fighting procedure

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode. 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.

Unusual fire and explosion hazards

When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide and carbon dioxide.

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6. Accidental release measures

Personal precautions

For small spills in a well-ventilated areas, 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 - Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Methods for cleaning up

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.

- Soil
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.
- Water
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.
- In air
Vapors may be suppressed by the use of water fog.

7. Handling and storage

Handling

Avoid bodily contact.
Do not take internally.
Upon contact with skin or eyes, wash off with water.

Storage

Store in a dry, cool, well-ventilated area away from incompatible materials (see "materials to avoid").
Product has an indefinite shelf-life limitation.
Do not store at temperatures above 60°C/140°F.
Available chlorine loss can be as little as 0.1% per year at ambient temperatures.

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8. Exposure controls / personal protection

Ventilation requirements Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs.
Otherwise, ensure good general ventilation.

Personal protective equipment:

- **Respiratory protection** When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridges for protection against chlorine gas and dust/mist pre-filter.
- **Hand protection** Neoprene gloves
- **Eye protection** Use chemical safety glasses to avoid eye contact.
Where industrial use occurs, chemical goggles may be required.
- **Skin and body protection** Body covering clothes and boots

Hygiene measures Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

Appearance White granular solid or tablet-form product
Odor Sharp, chlorine-like, bleach odor
Melting point/range Not applicable
Boiling point/range Not applicable
Vapour pressure Not applicable under standard conditions
Vapor density Not applicable under standard conditions
Evaporation rate (ether=1) Not applicable under standard conditions
Solubility:

Bulk density Granular-0.89-1.1 g/cc
Tablets - 1.16-1.9 g/cc

Specific gravity >1
pH 2.7-2.9 (1% solution)
Decomposition temperature 225°C (437°F)

10. Stability and reactivity

Stability Stable under normal conditions Do not package in paper or cardboard.
NOTE: Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes.

Materials to avoid 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

Hazardous decomposition products Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide.

Hazardous polymerization Will not occur

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11. Toxicological information

Acute toxicity:

- Rat oral LD50 490 mg/kg
- Rabbit dermal LD50 >2000 mg/kg
- Rat inhalation LC50 Approx.0.68 mg/l/4 hour - (nose only)
- Eye irritation (rabbit) Corrosive
- Dermal irritation (rabbit) Corrosive

Target organ effects

This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

There are no known or reported effects from repeated exposure.

Toxicological investigation indicates it does not produce significant effects from chronic exposure.

Chronic toxicity

Prolonged exposure may cause damage to the respiratory system.

Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.

Mutagenicity

Not mutagenic in five Salmonella strains and one E.coli strain with or without mammalian microsomal activation.

Carcinogenicity

Not known to be a carcinogen.

Not classified by IARC, OSHA, EPA.

Not included in NTP 10th Report on Carcinogens.

Reproductive toxicity

There are no known or reported effects on reproductive function or fetal development.

Toxicological investigation indicates it does not effect reproductive function of fetal development.

12. Ecological information

Aquatic toxicity :

- 96 Hour-LC50, Fish 0.32 mg/l (Rainbow trout)
- 0.30 mg/l (bluegill sunfish)
- 48 Hour-LC50, Daphnia magna 0.21 mg/l

Avian toxicity:

- Oral LD50, Mallard duck 1600 mg/kg
- Dietary LC50, Mallard duck >10,000 ppm
- Dietary LC50, Bobwhite quail 7422 ppm

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13. Disposal considerations

Waste disposal

Observe all federal, state and local environmental regulations when disposing of this material. If this product becomes waste, it will be a hazardous waste that is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.
Care must be taken to prevent environmental contamination from the use of this material.

14. Transportation information

UN No.

2468

DOT

Proper shipping name: Trichloroisocyanuric Acid Dry
Class: 5.1 - Oxidizing substances
Label: OXIDIZER (5.1)
Packing Group: II
Emergency Guide No.141

IMO

Proper shipping name: Trichloroisocyanuric Acid Dry
Class: 5.1 - Oxidizing substances
Label: OXIDIZING AGENT (5.1)
Packing Group: II

ICAO/IATA

Label: OXIDIZER (5.1)
Class: 5.1
Packing group: II

15. Regulatory information

USA

Reported in the EPA TSCA Inventory

EPCRA (SARA title III)

Sara (311, 312) hazard class

This product is categorized as an immediate health hazard, and fire and reactivity physical hazard

Sara 313 title III

Not listed

- WASTE CLASSIFICATIONS

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.

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- WORKPLACE CLASSIFICATION This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

EEC Reported in EINECS

Australia Listed in AICS

China inventory Listed

South Korea KE-34101

Philippines Listed in PICCS

16. Other information

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Superior Pool Products, LLC makes no representations as to the completeness or accuracy thereof.

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End of safety data sheet