

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product Name: Maintain Pool Pro Sticks, Pure Pool Sticks
Chemical Name: Trichloro-s-triazinetrione
Synonyms: Trichloroisocyanuric Acid; TCCA; Trichlor, Trichloro-s-triazinetrione
Revision Date: 02/13/2014
Formula: C₃Cl₃N₃O₃
Product ID: 3800
Chemical Family: Chloroisocyanurate
Molecular Weight: 232.41
Type of Product and Use: Intended for end-use product for disinfectants, sanitizers, fungicides, bacteriacides and algaecides for swimming pools, spas and hot tubs.
Supplier: Clearon Corp
95 MacCorkle Ave S.W.
South Charleston, WV 25303
1-800-811-2327
Emergency Telephone: Chemtrec (800) 424-9300
Medical (800) 420-9236
Sold By: Baleco Int'l Inc.
3200 State Line Rd
North Bend, OH 45052
(513) 353-3000

SECTION 2 HAZARDS IDENTIFICATION

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GHS Classification

Ox. Sol. 2 H272, May intensify fire; oxidizer.
Acute Tox. 4, H302 Harmful if swallowed.
Eye Irrit. 2, H319 Causes serious eye irritation.
USA: Eye Irrit. 2A, Causes serious eye irritation.
STOT SE 3, H335 May cause respiratory irritation.
Aquatic Acute 1, H400- Very toxic to aquatic life.
Aquatic Chronic 1, H410- Very toxic to aquatic life with long lasting effects.

Symbols



Signal Word: DANGER

Hazard Statements:

H272- May intensify fire; oxidizer
H302- Harmful if swallowed
H319- Causes serious eye irritation
H335- May cause respiratory irritation
H410- Vary toxic to aquatic life with long lasting effects
EUH301- Contact with acids liberates toxic gas

Precautionary Statements:

P210- Keep away from heat/sparks/open flame/hot surfaces. – No Smoking
P221- Take any precaution to avoid mixing with combustibles/other chemicals
P261- Avoid breathing dust/fumes/gas/mist/vapors/spray

P280- Wear protective gloves/protective clothing/eye protection/face protection
 P273- Avoid release to environment
 P391- Collect spillage
 P301 + P312- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 P330- Rinse mouth
 P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Lenses, if present and easy to do. Continue rinsing
 P337 + P313- If eye irritation persists: Get medical advice/attention
 P304 + P340- IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P312- Call a POISON CENTER or doctor/physician if you feel unwell
 P220- Keep/Store away from clothing/ combustible materials
 P264- Wash hands thoroughly after handling
 P270- Do not eat, drink or smoke when using this product
 P271- Use only outdoors or in well-ventilated area
 P370 + P378- In case of fire: Use water for extinction
 P405- Store locked up
 P501- Dispose of contents/container in accordance with national and international requirements

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

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.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS 3

Components	CAS No.	Weight %
Trichloroisocyanuric Acid	87-90-1	99

SECTION 4 FIRST AID MEASURES 4

Eye Contact: Hold eye open and gently rinse 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.

Skin Contact: Remove contaminated clothing. Rinse skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before reuse. Get medical attention immediately.

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

Most Important Symptoms and Effects, Acute or Delayed

- **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.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive. No specific antidote. In case of ingestion DO NOT induce vomiting. Treat symptomatically and supportively.
Medical Conditions Aggravated by Exposure: Asthma, respiratory and cardiovascular diseases.

SECTION 5 **FIRE FIGHTING MEASURES** **5**

Suitable Extinguishing Media: Water. Large amounts of water may be needed and the flow of water should not be stopped until the fire/reaction has stopped.

Extinguishing Media Not to Be Used: Do not use dry chemical extinguisher containing ammonia compounds.

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.

Fire Fighting Procedure: Cool containers with water spray. Fire fighters should wear full protective clothing and use self-contained breathing apparatus (SCBA) in positive pressure mode. 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 extinguishments can be accomplished.

SECTION 6 **ACCIDENTAL RELEASE MEASURES** **6**

Personal Precautions: For small spills in well-ventilated areas, wear a NIOSH approved half 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 this 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.

Environmental Precautions: Prevent entry into sewers and watercourses.

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.

In Air: Vapors may be suppressed by the use of a water fog.

Water: This material is heavier than and soluble in water. Stop flow of material into water source as soon as possible. Begin monitoring for available chlorine and pH immediately.

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.

SECTION 7 **HANDLING AND STORAGE** **7**

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

Storage: Store in a dry, cool, well-ventilated area away from incompatible chemicals (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.

SECTION 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION** **8**

Exposure Limits:

Components	ACGIH-TLV Data	OSHA (PEL) Data
Trichloroisocyanuric Acid 87-90-1	Not determined	Not determined

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 approved full-face respirator equipped with chlorine cartridges for protection against chlorine gas and a dust/mist type prefilter.

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: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Safety shower and eye wash should be provided.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES** **9**

Appearance:	White tablet-form product
Odor:	Sharp, chlorine-like bleach odor.
Odor Threshold:	Not determined
pH:	2.7-2.9 (1% solution)
Melting Point/Range:	225-230°C (decomposes).
Boiling Point/Range:	Not Applicable (decomposes).
Flash Point:	Not applicable.
Evaporation Rate (ether=1):	Not applicable under standard conditions.
Vapor Pressure:	Not applicable under standard conditions.
Vapor density:	Not applicable under standard conditions.
Solubility:	
- Solubility in Water:	1.2 g/100ml at 25°C
- Solubility in other solvents:	Not available
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	225°C (437°F)
Viscosity:	No data available
Bulk Density:	Tablets-1.16 to 1.90 g/cc
Specific Gravity:	> 1
Explosive Properties:	Not available
Oxidising Properties:	Oxidiser
Particle Size:	Not available

SECTION 10 **STABILITY AND REACTIVITY** **10**

Reactivity: Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes.

Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Decomposes when heated, releasing poisonous and corrosive fumes.

Conditions to Avoid: Heating above 225°C (437°F).

Materials to Avoid: Do not package in paper or cardboard. Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds.

Hazardous Decomposition Products: Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide

SECTION 11 **TOXICOLOGICAL INFORMATION** **11**

Likely Routes of Exposure: Skin, Inhalation, Eye contact, Ingestion

Acute Toxicity

Rat Oral LD50: 809 mg/kg

Rabbit Dermal LD50: >2000 mg/kg

Eye Irritation (rabbit): Corrosive

Dermal Irritation (Rabbit): Corrosive

Dermal Sensitization (guinea pig): Not a sensitizer.

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 classified by IARC, OSHA, EPA. Not included in NTP 12th Report on Carcinogens.

Reproductive Toxicity: There are no known or reported effects on reproductive function or fetal development. Toxicological investigation indicates it does not affect reproductive function of fetal development.

SECTION 12 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

Persistence and Degradability: Expected to be biodegradable (Lit.)

Bioaccumulative Potential: Not expected to bioaccumulate (Lit.)

Mobility in Soil: Expected to be highly mobile in soil (Lit.)

SECTION 13 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.

Disposal of Packaging: Empty containers should be disposed of in accordance with all the applicable laws and regulations.

SECTION 14 14 TRANSPORTATION INFORMATION

UN Number: 2468

DOT:

Proper Shipping Name: Trichloroisocyanuric Acid Dry

Class: 5.1 Oxidizing substances

Label: Oxidizing Substances (5.1)

Packing Group: II

Emergency Response Guide No: 140

Note: Certain shipping modes or package sizes may have exceptions from the transport regulations and may be classified as Consumer Commodity and Limited Quantity. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

SECTION 15 15 REGULATORY INFORMATION

USA: Reported in the EPA TSCA Inventory. This product is registered under FIFRA.

EPA Registration Number: 45458-18

Emergency Overview in Accordance to EPA Master Label:

Hazards to humans and domestic animals

Highly corrosive

Causes irreversible eye damage or skin burns

May be fatal if inhaled

May be fatal if absorbed through skin

Strong oxidizing agent

This pesticide is toxic to fish and aquatic organisms.

Sara (311, 312) Hazard Class: This product is categorized as an immediate health hazard, and fire and reactivity physical hazard. This product does not contain a chemical listed at or above de minimis concentrations.

State(s) Listed on Right to Know List Hazardous Substances List: Massachusetts, New Jersey, and Pennsylvania.

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

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

WHMIS Hazard Class: C oxidizing materials

D1B Toxic material causing immediate and serious toxic effects

D2B Toxic materials causing other toxic effects

SECTION 16

OTHER INFORMATION

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This data sheet contains changes from the previous version in section(s)

2, 3(REACH), 6(CLR), 10, 11, 12, 14, 15

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Reason(s) for Revision:

3 year review

Updates to all sections to bring into compliance.

Prepared By: MSDS/SDS Department with information from Supplier
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End of Safety Data Sheet

