

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

1-800-654-6911 (OUTSIDE
USA: 1-423-780-2970)

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

1-800-424-9300 (OUTSIDE
USA: 1-703-527-3887)

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-949-474-7707

Product name FRESH & CLEAN® 1" TABLETS CHLORINATING TABLETS

Product id

Revision date

May 16, 2015

1. Identification of the substance & the company

Chemical name Trichloro-s-triazinetrione
Synonym(s) Trichloroisocyanuric Acid; TCCA; Trichlor; Trichloro-s-triazinetrione; Symbiosene
Chemical formula C₃ Cl₃ N₃ O₃
Chemical family Chloroisocyanurate
Molecular weight 232.41
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 AQUA TRI®
 17872 Mitchell N..
 Irvine, CA. 92614-6034
 (949)474-7707
 WWW.ALLCLEAR.COM

Emergency Telephone 1-800-654-6911, 24 Hours/Day, Seven days a week.
 Other times, call the poison control center 1-800-222-1222.

2. Hazards identification

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

Symbol(s)



Signal Word

DANGER

**SAFETY DATA SHEET**

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Hazard statements H272 - May intensify fire; oxidizer
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

Precautionary statements P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P221 - Take any precaution to avoid mixing with combustibles/other chemicals
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P273 - Avoid release to the 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 a well-ventilated area
P370 + P378 - In case of fire: Use water for extinction
P405 - Store locked up
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/container in accordance with national and international regulations

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.

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



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3. Composition / information on ingredients

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

4. First-aid measures

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.

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.

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 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.



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- 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.

5. Fire - fighting measures

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 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 extinguishment can be accomplished.



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Supersedes

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.

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.

- 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.

- 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**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 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

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

9. Physical and chemical properties**Appearance**

White granules or 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

Decomposition temperature

225 °C (437°F)

Viscosity

Not viscous

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Bulk density

Granulest - 1.16-1.9

Specific gravity

g/cc

>1

Explosive properties

Not available

Oxidizing properties

Oxidizer

10. Stability and reactivity

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 mono-ammonium compounds.

Hazardous decomposition products

Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide.

11. Toxicological information

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

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.



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FRESH & CLEAN® 1" TABLETS CHLORINATING TABLETS**Product name****Product id****Revision date****May 16, 2015****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 or 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**Persistence and degradability** Expected to biodegradable (Lit.)**Bioaccumulative potential** Not expected to bioaccumulate (Lit.)**Mobility in soil** Expected to be highly mobile in soil (Lit.)**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 applicable laws and regulations



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14. Transportation information

UN No.

2468

DOT

Proper shipping name: Trichloroisocyanuric Acid Dry

Class: 5.1 - Oxidizing substances

Label: Oxidizing substances (5.1)

Packing Group: II

Emergency 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.

IMDG

Proper shipping name: Trichloroisocyanuric Acid Dry

Class: 5.1 - Oxidizing substances

Label: Oxidizing substances (5.1)

Packing Group: II

Mark: MARINE POLLUTANT

ICAO/IATA

Proper shipping name: Trichloroisocyanuric Acid Dry

Label: Oxidizing substances (5.1)

Class: 5.1

Packing group: II

Marking: Environmentally hazardous substance

15. Regulatory information

USA

Reported in the EPA TSCA Inventory.

This product is registered under FIFRA.

EPA Registration no.

87966-2

Emergency overview in
accordance to EPA

Master Label

DANGER

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.



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- SARA (311, 312)	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.
- Massachusetts Right-to-Know Hazardous Substances list	Listed
- New Jersey Right-to-Know Hazardous Substances list	Listed
- Pennsylvania Right-to-Know Hazardous Substances list	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.
- Workplace Classification	This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).
Canada	Listed in DSL
-WHMIS hazard class	C oxidizing materials D1B Toxic material causing immediate and serious toxic effects D2B Toxic materials causing other toxic effects
EU	Reported in EINECS
EC No.	201-782-8
Japan	ENCS no. 5-1044 ISHL no. 5-1044
Australia	Listed in AICS
New Zealand Inventory	Listed in NZIoC
China - China inventory	Listed in IECSC
Mexico	Listed in the National Inventory of Chemical Substances (INSQ).
Korea	Listed in the Korea Existing Chemicals Inventory (KECI), number KE-34101
Philippines	Listed in PICCS



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16. Other information

This data sheet contains changes from the previous version

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

In an event of discrepancy between the contents of this SDS and the English version of it, the English version shall prevail.

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