

**SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1**

**Product Name:** Maintain Pool Pro MultiPurpose Shock  
**Product Id:** 1500  
**Chemical Name:** Sodium dichloroisocyanurate, dehydrate.  
**Synonyms:** Sodium Dichlor; Sodium Dichloroisocyanurate, dihydrate; Sodium dichloro-s-triazinetriene dihydrate; CDB 56 Clearon.  
**Date:** 02-10-2014  
**Edition:** 01  
**Chemical Family:** Chloroisocyanurate  
**Molecular Weight:** 256  
**Type of Product and Use:** For end-use products intended for sanitizer, fungicide, bactericide and algaecides for pools, spas and hot tubs.  
**Supplier:** Clearon Corp., and Wego Chemical & Mineral Corp  
95 MacCorkle Ave. S.W., 239 Great Neck Road  
South Charleston, WV 25303 Great Neck, NY 11021  
**Chemical Formula:**  $\text{NaCl}_2 (\text{NCO})_3 \times 2\text{H}_2\text{O}$   
**Emergency Telephone:** Chemtrec (800) 424-9300  
Medical (800) 420-9236  
**Sold By:** Baleco International Inc  
3200 Stateline Road  
North Bend, Oh 45052  
(513) 353-3000

**SECTION 2 HAZARDS IDENTIFICATION 2**

**GHS**

**GHS Classification:** Acute Tox. 4, H302 Harmful if swallowed.  
Eye Irrit. 2, H319 Causes severe 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.

**Labels and Other Forms of Warning Symbols:**



**Signal Word:** WARNING

**Hazard Statements:**

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:**

P261- Avoid breathing dust/fume/gas/mist/vapor/spray  
P280-Wear protective gloves/protective clothing/eye protection/face protection  
P304 + P340- IF INHALED: Remove person to fresh air and keep 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

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 into the environment  
 P301 + P312 + P330- IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell. Rinse mouth  
 P337 + P313- If eye irritation persists: Get medical advice/attention  
 P391- Collect spillage  
 P403 + P233- Store in a well-ventilated place. Keep container tightly closed  
 P312- Call a Poison Center or doctor/physician if you feel unwell  
 P405- Store locked up  
 P501- Dispose of contents/container in accordance with national and international regulations

**NFPA Ratings** (SCALE 0-4): Health = 2, Fire = 0, Reactivity = 1. Special Hazard Warning: Oxidizer.  
**HMS Ratings** (SCALE 0-4): Health = 3, Fire = 0, Reactivity = 1.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS 3

COMPONENTS	CAS NUMBER	WEIGHT %
SODIUM DICHLOROISOCYANURATE, DIHYDRATE	51580-86-0	99-100
SODIUM CHLORIDE	7647-14-5	0-1

### SECTION 4 FIRST AID MEASURES 4

**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 minutes. Call a poison control center or doctor for treatment advice. Get medical attention immediately.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable 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. Prolonged skin exposure may cause permanent damage.

**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.

**Notes to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treat symptomatically and supportively. In case of ingestion DO NOT induce vomiting.

## SECTION 5 FIRE FIGHTING MEASURES 5

**Suitable Extinguishing Media:** Water

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

**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.

**Unusual Fire and Explosion Hazards:** When heated to decomposition, may release poisonous and corrosive fumes of Nitrogen Trichloride, Chlorine and CO.

## SECTION 6 ACCIDENTAL RELEASE MEASURES 6

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

### Personal Precautions

For small spills in well-ventilated areas, wear a NIOSH approved half or full-face respirator 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 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.

### Environmental Precautions:

**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:** Do not take internally. Avoid contact with skin, eyes, and clothing. Upon contact with skin or eyes, wash off with water.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible materials (see "materials to avoid"). Do not store at temperatures above 60°C/140°F. Product has an indefinite shelf life limitation.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION 8

### Exposure Limits:

Components	OSHA (PEL) Data	ACGIH-TVL Data
Sodium Dichloroisocyanurate, Dihydrate 51580-86-0	Not Determined	Not Determined
Sodium Chloride 7647-14-5	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:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. When dusty conditions are encountered, wear a NIOSH/OSHA approved full-face respirator with chlorine cartridges against chlorine gas and a dust/mist pre-filter.

**Eye Protection:** Use chemical safety glasses to avoid eye contact.

**Hand Protection:** Neoprene gloves (0.67mm).

**Skin and Body Protection:** Impervious body covering clothes, boots and neoprene apron.

**Hygiene Measures:** Eye wash station and safety shower should be provided. Do not eat drink or smoke where material is handled, processed or stored. Wash hand thoroughly after handling and before eating or smoking.

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

**9**

**Appearance:** White granules or tablet form product.

**Odor:** Mild chlorine-like

**Odor Threshold:** Not Determined

**Melting Point:** Not Applicable

**Boiling Point:** Not Applicable

**Flash Point:** Not Applicable

**Evaporation Rate (ether =1):** Not Applicable under standard conditions

**Flammability (solid, gas):** Not determined

**Flammability Explosion Limits:** Not Determined

**Vapor Pressure:** Not Applicable under standard conditions

**Vapor Density:** Not Applicable under standard conditions

**Relative Density:** Tap density = 0.974 g/mL

Pour density = 1.083 g/mL kg/L

#### **Solubility:**

**Solubility in Water:** 24-25 g/100g

**Partition Coefficient (n-octanol/water):** LogP - -0.0056 (estimated)

**Auto Ignition Temperature:** Not self-ignitable

**Decomposition Temperature:** Begins to lose 1 mole water at approximately 50°C (122°F); second mole water at 95°C (194°F); decomposes at 240-250°C (464-482°F)

**Viscosity:** Not applicable

**pH:** Not available

**Explosive Properties:** Not determined.

**Oxidising Properties:** Not oxidising.

**Particle Size:** Non-inhalable.

## **SECTION 10 STABILITY AND REACTIVITY**

**10**

**Stability:** Stable under normal conditions.

**Reactivity:** Begins to lose one mole of water at approximately 50°C

**Possibility of Hazardous Reactions:** If this material becomes damp/wet or contaminated in a container, the formulation of nitrogen trichloride gas may occur and an explosive condition may exist.

**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 temperatures. Do not package in paper or cardboard.

**Hazardous Decomposition Products:** Nitrogen trichloride, chlorine, and carbon monoxide.

## SECTION 11 TOXICOLOGICAL INFORMATION 11

**Likely Routes of Exposure:** Skin, Inhalation, Ingestion, Eye Contact

**Acute toxicity:**

- Rat oral LD50: 1671 mg/kg
- Rat Dermal LD50: >5000 mg/kg
- Eye Irritation (rabbit): Severe irritant
- Dermal Irritation (rabbit): Severe irritant
- Dermal sensitization: Not a sensitizer.

**Immediately Dangerous to Life or Health (IDLH):** No level has been established for the components or the product itself.

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

**Mutagenicity:** Not Mutagenic in five salmonella strains with or without metabolic activation.

**Carcinogenicity:** Not classified by IARC, OSHA, or EPA. Not included in NTP 12<sup>th</sup> report on carcinogens.

**Reproductive toxicity:** Sodium Dichloroisocyanuric Acid when given orally to pregnant mice from day 6 to day 15 of gestation, did not induce any significant Teratogenic effects.

## SECTION 12 ECOLOGICAL INFORMATION 12

**AQUATIC TOXICITY**

- |  |                              |
|--|------------------------------|
| -96-HOUR- LC <sub>50</sub> , FISH          | 0.22 mg/l (Rainbow Trout)    |
| -96-HOUR- LC <sub>50</sub> , FISH          | 0.28 mg/l (Bluegill Sunfish) |
| -48-HOUR- LC <sub>50</sub> , DAPHNIA MAGNA | 0.2 mg/l                     |

**AVIAN TOXICITY**

- |                               |             |
|-------------------------------|-------------|
| -Oral LD50, Bobwhite Quail    | 730 mg/kg   |
| -Oral LD50, Mallard Duck      | 3300 mg/kg  |
| -Dietary LC50, Mallard Duck   | >10,000 ppm |
| -Dietary LC50, Bobwhite Quail | >10,000 ppm |

**Persistence and Degradability:** Not readily biodegradable. Rapidly hydrolyses in water into Cyanuric acid.

**Bioaccumulative Potential:** Not expected to bioaccumulate.

**Mobility in Soil:** The degradation product, Cyanuric acid, is weakly absorbed to and highly mobile in all soils.

## SECTION 13 DISPOSAL CONSIDERATIONS 13

**Waste Disposal:** Care must be taken to prevent environmental contamination from the use of this material. Observe all federal, state and local environmental regulations when disposing of this material.

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

## SECTION 14 TRANSPORT INFORMATION 14

**DOT:** Not regulated for non-bulk shipments.

For bulk shipments regulated as:

UN No. 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s  
(Sodium Dichloroisocyanurate, dihydrate)

Class: 9 - Miscellaneous Hazardous Material

Label: 9

Marking: Marine Pollutant

Packing Group: III

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.

## **SECTION 15** **REGULATORY INFORMATION** **15**

**UNITED STATES:** All the components of this substance are listed on or are exempt from the inventory

**EPA Registration Number:** 45458-20

Emergency Overview in Accordance to EPA Master Label: Hazards to humans and domestic animals Corrosive. Causes irreversible eye damage. Maybe fatal if inhaled. Harmful if swallowed 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 Right to Know Hazardous Substances List:** Listed

**Pennsylvania Right to Know Hazardous Substances List:** Listed

**Waste Classification:** If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.

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

## **SECTION 16** **OTHER INFORMATION** **16**

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

All sections. Converted to SDS format.

The information in this safety data sheet should be provided to all who will use, handles, store, transport, or otherwise be exposed to this product. This Information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Baleco believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is. Additionally, if this safety data sheet is more than three years old, you should contact Baleco at The phone number listed in section 1 to make certain that this sheet is current.

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Prepared By: MSDS/SDS Department with information from the Suppliers.

Baleco Int'l Inc.  
PO Box 11331  
Cincinnati, OH 45211  
(513)353-3000