

**90 Years of HTH Perfect Pools Pre-measured Water Soluble Pods Algae Guard**

Version 1.0

SDS Number: 000000022979

Revision Date: 2018.06.11

**SECTION 1. IDENTIFICATION**

Product name : 90 Years of HTH Perfect Pools Pre-measured Water Soluble Pods Algae Guard

Product code : 000000022979

**Manufacturer or supplier's details**

Company : Arch Chemicals, Inc.  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004

E-mail address : prodinfo@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h )

For US only CHEMTREC 1-800-424-9300

**Recommended use of the chemical and restrictions on use**

Recommended use : Water treatment chemical

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity (Oral) : Category 4

Eye irritation : Category 2A

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection/ face protection.

**Response:**

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P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
sodium dichloroisocyanurate, dihydrate	51580-86-0	99.00

**SECTION 4. FIRST AID MEASURES**

- If inhaled : IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- In case of skin contact : IF ON SKIN OR CLOTHING: 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.
- In case of eye contact : IF IN EYES: 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.
- If swallowed : IF SWALLOWED: 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water  
Do not use dry extinguishers containing ammonium compounds.
- Specific hazards during firefighting : Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
Use personal protective equipment.
- Environmental precautions
- Air : Hazardous concentrations in air may be found in local spill area and immediately downwind.  
Vapors may be suppressed by the use of water fog.
- Water : Stop water flow or divert water flow around spill if possible and safe to do so.  
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

- Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.
- Conditions for safe storage : Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

#### Hazardous components without workplace control parameters

Components	CAS-No.
sodium dichloroisocyanurate, dihydrate	51580-86-0

#### Appropriate engineering controls

- Engineering measures** : Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

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**Personal protective equipment**

Respiratory protection	:	Wear a NIOSH approved respirator if levels above the exposure limits are possible. A NIOSH approved full-face air purifying respirator equipped with combination chlorine/P100 cartridges. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.
Hand protection	:	
Remarks	:	Neoprene gloves A full impervious suit is recommended if exposure is possible to a large portion of the body.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Impervious
Protective measures	:	An eye wash and safety shower should be provided in the immediate work area.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	granular
Colour	:	white
Odour	:	Mild chlorine-like
Odour Threshold	:	no data available
pH	:	6.0 - 6.5, 1 %
Melting point/freezing point	:	Not applicable
Boiling point/boiling range	:	no data available
Flash point	:	no data available
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Product is not known to be flammable, combustible, pyrophoric or explosive.
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	Not applicable

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Relative vapour density	:	no data available
Relative density	:	0.96 (20 °C)
Density	:	no data available
Water solubility	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Oxidizing properties	:	Product has oxidizing properties.
Molecular weight	:	285 g/mol

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Product is not sensitive to mechanical shock or impact. Product is not sensitive to electrical static discharge. Product will not undergo hazardous polymerization. Product is an NFPA Class 1 oxidizer. Not pyrophoric. Not an organic peroxide. If subjected to excessive temperatures, the product may undergo rapid decomposition, evolution of chlorine gas, and heat sufficient to ignite combustible substances. If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter. Use copious amounts of water for fires involving this product.
Conditions to avoid	:	Sparks, open flame, other ignition sources, and elevated temperatures. Contact with incompatible substances
Incompatible materials	:	This product is chemically reactive with many substances, including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive, flammable or combustible materials.
Hazardous decomposition products	:	Nitrogen trichloride Chlorine Carbon monoxide

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Information on likely routes of exposure : Inhalation, skin, eyes, ingestion

**Acute toxicity**

Acute oral toxicity (LD50) : 735 mg/kg  
Species: Rat

Acute dermal toxicity (LD50) : > 2,000 mg/kg  
Species: Rabbit

**Skin corrosion/irritation**

Skin irritation : Assessment: Causes skin irritation.

**Serious eye damage/eye irritation**

Eye irritation : Assessment: Severe eye irritation

**Respiratory or skin sensitisation**

Sensitisation : Assessment: negative skin sensitizer

**Further information**

Remarks: no data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential****Components:****sodium dichloroisocyanurate, dihydrate**

Partition coefficient: n-octanol/water : Remarks: no data available

**Mobility in soil**

no data available

**Other adverse effects**

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Highly toxic to fish and other aquatic organisms.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : If this product becomes a waste, it will be a nonhazardous waste. As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

**SECTION 14. TRANSPORT INFORMATION****IATA**

**UN number** : 3077  
**Proper shipping name** : Environmentally hazardous substance, solid, n.o.s. (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
Labels : 9MI  
**Environmental hazards** : yes

**IMDG**

**UN number** : 3077  
**Proper shipping name** : Environmentally hazardous substance, solid, n.o.s. (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
Labels : 9  
EmS Number 1 : F-A  
EmS Number 2 : S-F  
**Environmental hazards** : Marine pollutant: yes

**ADR**

**UN number** : 3077  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
**Environmental hazards** : yes

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**RID**

**UN number** : 3077  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 SOLID, N.O.S.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
 Classification Code : M7  
 Hazard Identification Number : 90  
 Labels : 9  
**Environmental hazards** : yes

**DOT**

**UN number** : 3077  
**Proper shipping name** : Environmentally hazardous substance, solid, n.o.s.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
 Labels : 9  
 Emergency Response Guidebook : 171  
 Number  
**Environmental hazards** : yes

**TDG**

**UN number** : 3077  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 SOLID, N.O.S.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
 Labels : 9  
**Environmental hazards** : yes

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable

**SECTION 15. REGULATORY INFORMATION**

**This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.**

Signal word : DANGER!  
 Hazard statements : Harmful if swallowed.  
 Harmful if absorbed through skin.  
 May be fatal if inhaled.

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Corrosive. Causes skin burns.  
 Corrosive. Causes irreversible eye damage.  
 This pesticide is toxic to fish.

EPA No. : 1258-984

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**

See above: SECTION 2. Hazard Identification-GHS Classification

**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

Components	CAS-No.
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sodium dichloroisocyanurate, dihydrate	51580-86-0
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**Pennsylvania Right To Know**

Components	CAS-No.
sodium dichloroisocyanurate, dihydrate	51580-86-0

**New Jersey Right To Know**

Components	CAS-No.
sodium dichloroisocyanurate, dihydrate	51580-86-0
Sodium chloride	7647-14-5

**New York City Hazardous Substances**

No components listed on the New York City Hazardous Substances List

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16. OTHER INFORMATION**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.