		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : HTH POOL CARE SHOCK ULTRA

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

Use of the Substance/Mixture : Pesticide

<b>Details of the supplier of the safety data sheet</b> Innovative Water Care, LLC 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA)  EHSProductSafetyTeam@solenis.com	<b>Emergency telephone number</b> 1-800-654-6911 (Outside the USA:1-423-780-2970)  <b>Product Information</b> 1-800-511-6737 (Outside the USA:1-423-780-2347)
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids : Category 2

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

### GHS label elements


Hazard pictograms :



Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**  
P210 Keep away from heat.

 Strong bonds. Trusted solutions.		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

P220 Keep/ Store away from clothing/ combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Storage:

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

#### Components

Chemical name	CAS-No.	Classification	Concentration (%)
CALCIUM HYPOCHLORITE	7778-54-3	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 50 - < 60
CALCIUM HYDROXIDE	1305-62-0	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 1.5 - < 5
ALUMINUM SULFATE	10043-01-3	Met. Corr. 1; H290 Eye Dam. 1; H318	>= 1.5 - < 5


	Page: 3
<b>SAFETY DATA SHEET</b>	Revision Date: 10/19/2022
	Print Date: 11/30/2022
	SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA	Version: 1.0

CALCIUM CARBONATE	471-34-1		≥ 1.5 - < 5
CALCIUM CHLORIDE DIHYDRATE	10035-04-8	Eye Irrit. 2A; H319	≥ 1.5 - < 5

Actual concentration is withheld as a trade secret

#### SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Move to fresh air. If breathed in, move person into fresh air. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If on skin, rinse well with water. Wash contaminated clothing before re-use. If on clothes, remove clothes.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye.
If swallowed	: Get medical attention immediately. Do NOT induce vomiting. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) discomfort in the chest bronchitis Headache Shortness of breath lung edema (fluid buildup in the lung tissue) Pulmonary edema may be delayed. Harmful if swallowed. Causes serious eye damage. Causes severe burns.
Notes to physician	: Probable mucosal damage may contraindicate the use of gastric lavage.

		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

## SECTION 5. FIREFIGHTING MEASURES


- Suitable extinguishing media : Water
- Unsuitable extinguishing media : Dry extinguishers containing ammonium compounds.
- Specific hazards during firefighting : May intensify fire, oxidizer.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Chlorine
- Further information : Use water to cool containers exposed to fire.
- 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 : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Sweep up and shovel using a clean broom or shovel.  
Shovel material into clean dry containers.  
All spills of this product should be treated as contaminated.  
Contaminated product may initiate a chemical reaction that may spontaneously ignite any combustible material present, resulting in a fire.  
Avoid getting spilled product wet.  
Do not seal disposal containers tightly. Immediately remove all product in disposal containers to an isolated area outdoors.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from combustible material.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid dust formation.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the

	Page: 5
<b>SAFETY DATA SHEET</b>	Revision Date: 10/19/2022
	Print Date: 11/30/2022
HTH POOL CARE SHOCK ULTRA	SDS Number: R1600337 Version: 1.0


- application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.  
Store in original container.
- Recommended storage temperature : <= 95 °F / <= 35 °C
- Further information on storage stability : Do not store next to a heat source, in direct sunlight, or elevated temperatures. Do not store where the daily average temperature exceeds prescribed storage temperature for 7 consecutive days. Prevent ingress of humidity and moisture into container or package. Keep containers tightly closed.

Maximum average daily temperature as recommended (where the average daily temperature may be obtained by averaging the minimum and maximum temperatures for each day).  
Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
CALCIUM HYDROXIDE	1305-62-0	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
ALUMINUM SULFATE	10043-01-3	TWA	5 mg/m3	OSHA P0
		TWA	2 mg/m3 (Aluminium)	OSHA P0
CALCIUM CARBONATE	471-34-1	TWA	2 mg/m3 (Aluminium)	NIOSH REL
		TWA (Respirable)	5 mg/m3 (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m3 (Calcium)	NIOSH REL

	Page: 6
<b>SAFETY DATA SHEET</b>	Revision Date: 10/19/2022
	Print Date: 11/30/2022
	SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA	Version: 1.0

			carbonate)	
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**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

### Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles and face shield to protect eyes and skin from airborne dust.  
Maintain eye wash station in immediate work area.

Skin and body protection : Wear as appropriate:  
Chemical resistant apron  
Safety shoes  
Dust impervious protective suit  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).  
Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures : Avoid breathing dust.  
Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
Ensure that eyewash stations and safety showers are close to the workstation location.  
When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granular

Colour : white

Odour : chlorine-like


Odour Threshold : No data available

pH : 10 - 10.7  
Solution

Melting point/freezing point : Not applicable

Boiling point/boiling range : No data available


Flash point : Not applicable

		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not combustible Dust
Self-ignition	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.9 - 1.1 g/cm3
Solubility(ies)	
Water solubility	: ca. 180 g/l
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: 338 - 356 °F / 170 - 180 °C
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: The substance or mixture is classified as oxidizing with the category 2.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1 Oxidizer.
Conditions to avoid	: excessive heat Heat, flames and sparks. Heat Exposure to moisture Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Do not allow product to come in contact with other materials, including e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire

		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. A chemical reaction with such substances can cause a fire.

Hazardous decomposition products : Chlorine  
If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.

### Components:

#### **CALCIUM HYPOCHLORITE:**

Acute oral toxicity : LD50 (Rat): 850 mg/kg  
Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.  
Acute dermal toxicity : LD50 (Rabbit): > 2 g/kg

#### **CALCIUM HYDROXIDE:**

Acute inhalation toxicity : Remarks: Corrosive to respiratory system.

#### **ALUMINUM SULFATE:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 - < 5,000 mg/kg  
Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg


#### **CALCIUM CARBONATE:**

Acute oral toxicity : LD50 (Rat): 6,450 mg/kg  
Acute inhalation toxicity : LC 50 (Rat): > 3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: Not classified as acutely toxic by inhalation under GHS.  
Remarks: Aerosol  
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **CALCIUM CHLORIDE DIHYDRATE:**

Acute oral toxicity : LD50 (Rat): 2,301 mg/kg  
Method: OECD Test Guideline 401



	Page: 9
<b>SAFETY DATA SHEET</b>	Revision Date: 10/19/2022
	Print Date: 11/30/2022
	SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA	Version: 1.0

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
GLP: no

#### **Skin corrosion/irritation**

Causes severe burns.

#### **Product:**

Remarks : Causes severe skin burns and eye damage.

#### **Components:**

##### **CALCIUM HYPOCHLORITE:**

Result : Corrosive after 3 minutes to 1 hour of exposure

##### **CALCIUM HYDROXIDE:**

Result : Irritating to skin

##### **ALUMINUM SULFATE:**

Species : Rabbit  
Result : Not irritating to skin

##### **CALCIUM CARBONATE:**

Result : Not irritating to skin

##### **CALCIUM CHLORIDE DIHYDRATE:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Product:**

Remarks : May cause irreversible eye damage.


#### **Components:**

##### **CALCIUM HYPOCHLORITE:**

Result : Corrosive to eyes

##### **CALCIUM HYDROXIDE:**

Result : Corrosive to eyes

		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

#### ALUMINUM SULFATE:

Species : Rabbit  
 Result : Corrosive to eyes  
 Method : OECD Test Guideline 405

#### CALCIUM CARBONATE:

Result : Not irritating to eyes

#### CALCIUM CHLORIDE DIHYDRATE:

Species : Rabbit  
 Result : Eye irritation  
 Method : OECD Test Guideline 405

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.

#### Components:


#### ALUMINUM SULFATE:

Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative  
 GLP: yes

Test Type: Ames test  
 Test system: Escherichia coli  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative  
 GLP: yes

Test Type: In vitro mammalian cell gene mutation test  
 Test system: mouse lymphoma cells  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: yes

Test Type: Micronucleus test  
 Test system: Human lymphocytes  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 487

		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

Result: negative  
GLP: yes

#### **Carcinogenicity**

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **Components:**

##### **CALCIUM HYPOCHLORITE:**

Assessment : May cause respiratory irritation.

##### **CALCIUM HYDROXIDE:**

Assessment : May cause respiratory irritation.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

##### **Product:**

Remarks : No data available

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## **SECTION 12. ECOLOGICAL INFORMATION**


#### **Ecotoxicity**

##### **Product:**

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

### **Components:**

#### **CALCIUM HYPOCHLORITE:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.049 - 0.16 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.067 mg/l  
Exposure time: 48 h

#### **ALUMINUM SULFATE:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on similar product.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 180 min  
Test Type: Static  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: Based on similar product.


#### **CALCIUM CARBONATE:**

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): > 56,000 mg/l  
Exposure time: 96 h  
Test Type: static test

#### **CALCIUM CHLORIDE DIHYDRATE:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,630 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,400 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202

		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,900 mg/l  
 End point: Biomass  
 Exposure time: 72 h  
 Test Type: Growth inhibition  
 Method: OECD Test Guideline 201  
 GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 230 mg/l  
 Exposure time: 25 d  
 Test Type: semi-static test  
 Method: OECD Test Guideline 210  
 GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 481 mg/l  
 Exposure time: 21 d  
 Test Type: semi-static test  
 Analytical monitoring: yes  
 Method: OECD Test Guideline 211  
 GLP: no

#### Persistence and degradability

##### Components:

##### **CALCIUM HYPOCHLORITE:**

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

##### **CALCIUM HYDROXIDE:**

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

##### **ALUMINUM SULFATE:**

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

##### **CALCIUM CHLORIDE DIHYDRATE:**


Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

#### Bioaccumulative potential

##### Components:

##### **ALUMINUM SULFATE:**

Bioaccumulation : Species: Atlantic salmon (Salmo salar)  
 Bioconcentration factor (BCF): 76 - 190  
 Exposure time: 60 d

		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

Method: Flow through

Species: Atlantic salmon (*Salmo salar*)

Bioconcentration factor (BCF): 362

Exposure time: 45 d

Concentration: 0.264 mg/l

Method: Flow through

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION


#### International Regulations

##### **IATA-DGR**

UN number : UN 2880  
Proper shipping name : Calcium hypochlorite, hydrated mixture  
Class : 5.1  
Packing group : II  
Packing instruction (cargo aircraft) : 562  
Packing instruction (passenger aircraft) : 558  
Marine pollutant : yes

##### **IMDG-Code**

UN number : UN 2880  
Proper shipping name : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE

	Page: 15
<b>SAFETY DATA SHEET</b>	Revision Date: 10/19/2022
	Print Date: 11/30/2022
	SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA	Version: 1.0

Class : 5.1  
 Packing group : II  
 EmS Code : F-H, S-Q  
 Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### 49 CFR

UN number : UN 2880  
 Proper shipping name : Calcium hypochlorite, hydrated mixtures  
 Class : 5.1  
 Packing group : II  
 ERG Code : 140  
 Marine pollutant : no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

49CFR/IMDG: Packages with inner packaging less than 1L or 1kg and gross weight under 30kg may ship under the Limited Quantity Exception.

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
CALCIUM HYPOCHLORITE	7778-54-3	10	17

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity


This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Oxidiser (liquid, solid or gas)  
 Acute toxicity (any route of exposure)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation

**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.

### US State Regulations

#### Massachusetts Right To Know

	Page: 16
<b>SAFETY DATA SHEET</b>	Revision Date: 10/19/2022
	Print Date: 11/30/2022
	SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA	Version: 1.0

calcium hypochlorite	7778-54-3
CALCIUM HYDROXIDE	1305-62-0
ALUMINUM SULFATE	10043-01-3
CALCIUM CHLORATE	10137-74-3

**Pennsylvania Right To Know**

calcium hypochlorite	7778-54-3
MAGNESIUM SULPHATE HEPTAHYDRATE	10034-99-8
SODIUM CHLORIDE	7647-14-5
WATER	7732-18-5
CALCIUM HYDROXIDE	1305-62-0
ALUMINUM SULFATE	10043-01-3
CALCIUM CHLORATE	10137-74-3

**New Jersey Right To Know**

calcium hypochlorite	7778-54-3
MAGNESIUM SULPHATE HEPTAHYDRATE	10034-99-8
SODIUM CHLORIDE	7647-14-5
WATER	7732-18-5
CALCIUM HYDROXIDE	1305-62-0
ALUMINUM SULFATE	10043-01-3
CALCIUM CHLORATE	10137-74-3

**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.

**The components of this product are reported in the following inventories:**

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory

**TSCA list**


No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**Biocides**

EPA Reg. # 1258-1346



		Page: 17
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger, Corrosive., Causes irreversible eye damage and skin burns., Harmful if swallowed or absorbed through skin or inhaled.

## SECTION 16. OTHER INFORMATION

### Further information

Revision Date : 10/19/2022


### Full text of H-Statements

H272 : May intensify fire; oxidizer.  
 H290 : May be corrosive to metals.  
 H302 : Harmful if swallowed.  
 H314 : Causes severe skin burns and eye damage.  
 H315 : Causes skin irritation.  
 H318 : Causes serious eye damage.  
 H319 : Causes serious eye irritation.  
 H335 : May cause respiratory irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
 Eye Dam. : Serious eye damage  
 Eye Irrit. : Eye irritation  
 Met. Corr. : Corrosive to metals  
 Ox. Sol. : Oxidizing solids  
 Skin Corr. : Skin corrosion  
 Skin Irrit. : Skin irritation  
 STOT SE : Specific target organ toxicity - single exposure  
 ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 ACGIH / TWA : 8-hour, time-weighted average  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -

		Page: 18
<b>SAFETY DATA SHEET</b>		Revision Date: 10/19/2022
		Print Date: 11/30/2022
		SDS Number: R1600337
HTH POOL CARE SHOCK ULTRA		Version: 1.0

Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data


SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN

	Page: 1
<b>SAFETY DATA SHEET</b>	Revision Date: 10/18/2022
	Print Date: 11/30/2022
	SDS Number: R1600208
HTH Pool Care Algae Guard Granules	Version: 1.0

## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : HTH Pool Care Algae Guard Granules

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

Use of the Substance/Mixture : Pesticide

<b>Details of the supplier of the safety data sheet</b> Innovative Water Care, LLC 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA)  EHSProductSafetyTeam@solenis.com	<b>Emergency telephone number</b> 1-800-654-6911 (Outside the USA:1-423-780-2970)  <b>Product Information</b> 1-800-511-6737 (Outside the USA:1-423-780-2347)
---	---

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4

Serious eye damage : Category 1

### GHS label elements


Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear eye protection/ face protection.  
  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON

		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

CENTER/ doctor if you feel unwell. Rinse mouth.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

**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


**Components**

Chemical name	CAS-No.	Classification	Concentration (%)
ZINC SULFATE	7446-19-7	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 90 - <= 100

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.  
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms : No symptoms known or expected.

		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

and effects, both acute and delayed  
Notes to physician : Harmful if swallowed.  
Causes serious eye damage.  
No hazards which require special first aid measures.

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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 : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.


Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Avoid dust formation.  
Do not breathe vapours/dust.  
Do not smoke.

		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

<p>Conditions for safe storage</p> <p>Further information on storage stability</p>	<p>Container hazardous when empty.          Avoid contact with skin and eyes.          Smoking, eating and drinking should be prohibited in the application area.          For personal protection see section 8.          Dispose of rinse water in accordance with local and national regulations.</p> <p>: Keep container tightly closed in a dry and well-ventilated place.          Containers which are opened must be carefully resealed and kept upright to prevent leakage.          Electrical installations / working materials must comply with the technological safety standards.</p> <p>: Keep in a dry place.          No decomposition if stored and applied as directed.</p>
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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

### Personal protective equipment


Hand protection

Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Wear chemical splash goggles and face shield to protect eyes and skin from airborne dust. Maintain eye wash station in immediate work area.
Skin and body protection	: Wear as appropriate: Safety shoes Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.
Hygiene measures	: Avoid breathing dust. Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder



		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.  
 Chemical stability : Stable under recommended storage conditions.  
 Possibility of hazardous reactions : Product will not undergo hazardous polymerization.  
 Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.

#### Components:

#### **ZINC SULFATE:**

Acute oral toxicity : LD50 (Rat): 574 mg/kg  
 Method: OECD Test Guideline 401  
 GLP: no  
  
 Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 GLP: yes

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

#### **ZINC SULFATE:**

Species : Rabbit  
 Result : Not irritating to skin

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:


Remarks : May cause irreversible eye damage.

#### Components:

#### **ZINC SULFATE:**

Species : Rabbit  
 Result : Corrosive to eyes



		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

## Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

### Respiratory sensitisation

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION


### Ecotoxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

### **Components:**

#### **ZINC SULFATE:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### **Persistence and degradability**

No data available

#### **Bioaccumulative potential**

No data available

#### **Mobility in soil**

No data available

#### **Other adverse effects**

#### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

---

## **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

#### **IATA-DGR**


UN number : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (ZINC SULPHATE)

Class : 9

Packing group : III

Packing instruction (cargo) : 956

	Page: 9
<b>SAFETY DATA SHEET</b>	Revision Date: 10/18/2022
	Print Date: 11/30/2022
	SDS Number: R1600208
HTH Pool Care Algae Guard Granules	Version: 1.0

aircraft)  
Packing instruction : 956  
(passenger aircraft)  
Marine pollutant : yes

#### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SULPHATE)  
Class : 9  
Packing group : III  
EmS Code : F-A, S-F  
Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### 49 CFR

Not regulated as a dangerous good

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ZINC SULFATE	7446-19-7	1000	1020

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity


This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation

**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.

#### US State Regulations

##### Massachusetts Right To Know

		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

ZINC SULFATE

7446-19-7

**Pennsylvania Right To Know**

ZINC SULFATE

7446-19-7

**New Jersey Right To Know**

ZINC SULFATE

7446-19-7

WATER

7732-18-5

**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.

**The components of this product are reported in the following inventories:**

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**Biocides**

EPA Reg. # 1258-1328

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:


Danger, Corrosive., Causes irreversible eye damage., Harmful if swallowed or if inhaled

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**SECTION 16. OTHER INFORMATION**

**Further information**

Revision Date : 10/18/2022

		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

#### Full text of H-Statements

H302 : Harmful if swallowed.  
H318 : Causes serious eye damage.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet


Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports


The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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

		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 11/30/2022
		SDS Number: R1600208
HTH Pool Care Algae Guard Granules		Version: 1.0

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. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN

	Page: 1
<b>SAFETY DATA SHEET</b>	Revision Date: 11/30/2022
	Print Date: 11/30/2022
	SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control	Version: 1.0

## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : HTH Pool Care Metal, Stain & Scale Control

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

Use of the Substance/Mixture : Water treatment chemical

<b>Details of the supplier of the safety data sheet</b> Innovative Water Care, LLC 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA)  EHSProductSafetyTeam@solenis.com	<b>Emergency telephone number</b> 1-800-654-6911 (Outside the USA:1-423-780-2970)  <b>Product Information</b> 1-800-511-6737 (Outside the USA:1-423-780-2347)
---	---

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4

Eye irritation : Category 2A

### GHS label elements


Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear eye protection/ face protection.  
  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON

		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

CENTER/ doctor if you feel unwell. 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.

**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

**Components**

Chemical name	CAS-No.	Classification	Concentration (%)
PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, TETRA SODIUM SALT	3794-83-0	Acute Tox. 4; H302 Eye Irrit. 2A; H319	>= 90 - <= 100

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.


In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.

If swallowed : IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
irritation (nose, throat, airways)



		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

Excessive levels of phosphorus can cause low blood calcium, with tetany and convulsions.  
Harmful if swallowed.  
Causes serious eye irritation.

Notes to physician : No hazards which require special first aid measures.

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

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.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.


Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Avoid dust formation.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.

		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

### Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Avoid breathing dust.  
Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES


Appearance : solid

Colour : white

Odour : characteristic

Odour Threshold : No data available

pH : 11

		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

Concentration: 1 %

: 428 °F / 220 °C

Melting point/freezing point

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 0.7 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available


Molecular weight : 298 g/mol

Particle size : No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.  
 Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.  
 Hazardous decomposition products : No hazardous decomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.

#### Components:

#### PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, TETRA SODIUM SALT:

Acute oral toxicity : LD50 (Rat): 990 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks : May cause skin irritation in susceptible persons.

#### Components:

#### PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, TETRA SODIUM SALT:

Result : Mildly irritating to skin

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

Remarks : Product dust may be irritating to eyes, skin and respiratory system.  
Causes serious eye irritation.

#### Components:

#### PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, TETRA SODIUM SALT:

Result : Irritating to eyes


### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

##### **Product:**

Remarks : No data available

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## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

##### **Product:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.


Chronic aquatic toxicity : Not classified based on available information.

##### **Components:**

#### **PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, TETRA SODIUM SALT:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 320 mg/l  
Exposure time: 48 h

Remarks: Information given is based on data obtained from similar substances.

		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

#### **Persistence and degradability**

No data available

#### **Bioaccumulative potential**

No data available

#### **Mobility in soil**

No data available

#### **Other adverse effects**

#### **Product:**

Additional ecological information : No data available

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### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

##### **IATA-DGR**

Not regulated as a dangerous good

##### **IMDG-Code**

Not regulated as a dangerous good

##### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.


#### **National Regulations**

##### **49 CFR**

Not regulated as a dangerous good

#### **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

	Page: 9
<b>SAFETY DATA SHEET</b>	Revision Date: 11/30/2022
	Print Date: 11/30/2022
	SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control	Version: 1.0

## SECTION 15. REGULATORY INFORMATION

### 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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation

**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.

### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, 3794-83-0  
TETRA SODIUM SALT  
WATER 7732-18-5

#### New Jersey Right To Know

PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS-, 3794-83-0  
TETRA SODIUM SALT  
WATER 7732-18-5

#### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory


DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

#### Further information

Revision Date : 11/30/2022

#### Full text of H-Statements


H302 : Harmful if swallowed.  
H319 : Causes serious eye irritation.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Irrit. : Eye irritation

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United



 Strong bonds. Trusted solutions.		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 11/30/2022
		Print Date: 11/30/2022
		SDS Number: R1601015
HTH Pool Care Metal, Stain & Scale Control		Version: 1.0

Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;  
vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data


SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN

		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 10/24/2022
		Print Date: 11/30/2022
		SDS Number: R1600612
HTH Pool Care 6-Way Test Strips		Version: 1.0

## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : HTH Pool Care 6-Way Test Strips

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

Use of the Substance/Mixture : Water Testing Applications

<b>Details of the supplier of the safety data sheet</b> Innovative Water Care, LLC 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA)  EHSProductSafetyTeam@solenis.com	<b>Emergency telephone number</b> 1-800-654-6911 (Outside the USA:1-423-780-2970)  <b>Product Information</b> 1-800-511-6737 (Outside the USA:1-423-780-2347)
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### GHS label elements

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance


### Components

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical

		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 10/24/2022
		Print Date: 11/30/2022
		SDS Number: R1600612
HTH Pool Care 6-Way Test Strips		Version: 1.0

- advice.  
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
- Notes to physician : No hazards which require special first aid measures.

## SECTION 5. FIREFIGHTING MEASURES


- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Standard procedure for chemical fires.
- 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.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.  
Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.  
Provide appropriate exhaust ventilation at places where dust is formed.

		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 10/24/2022
		Print Date: 11/30/2022
		SDS Number: R1600612
HTH Pool Care 6-Way Test Strips		Version: 1.0

- Advice on safe handling : Avoid dust formation.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.


- Engineering measures** : Provide appropriate exhaust ventilation at places where dust is formed.  
General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Eye protection : Safety glasses
- Skin and body protection : Wear as appropriate:  
Safety shoes  
Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : Avoid breathing dust.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : solid
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : No data available
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available

		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 10/24/2022
		Print Date: 11/30/2022
		SDS Number: R1600612
HTH Pool Care 6-Way Test Strips		Version: 1.0

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity


Not classified based on available information.

### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

	Page: 5
<b>SAFETY DATA SHEET</b>	Revision Date: 10/24/2022
	Print Date: 11/30/2022
	SDS Number: R1600612
HTH Pool Care 6-Way Test Strips	Version: 1.0

**Product:**

Remarks : Unlikely to cause eye irritation or injury.  
Product dust may be irritating to eyes, skin and respiratory system.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 10/24/2022
		Print Date: 11/30/2022
		SDS Number: R1600612
HTH Pool Care 6-Way Test Strips		Version: 1.0

Chronic aquatic toxicity : Not classified based on available information.

#### **Persistence and degradability**

No data available

#### **Bioaccumulative potential**

No data available

#### **Mobility in soil**

No data available

#### **Other adverse effects**

#### **Product:**

Additional ecological information : No data available

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### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

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### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

##### **IATA-DGR**

Not regulated as a dangerous good

##### **IMDG-Code**

Not regulated as a dangerous good

#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.


#### **National Regulations**

##### **49 CFR**

Not regulated as a dangerous good

#### **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 10/24/2022
		Print Date: 11/30/2022
		SDS Number: R1600612
HTH Pool Care 6-Way Test Strips		Version: 1.0

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## SECTION 15. REGULATORY INFORMATION

### 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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**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.

### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Non-Hazardous Solid Not Assigned

#### New Jersey Right To Know

Non-Hazardous Solid Not Assigned

#### The components of this product are reported in the following inventories:

TSCA : Exempt

DSL : Exempt

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

Revision Date : 10/24/2022

### Full text of other abbreviations



		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 10/24/2022
		Print Date: 11/30/2022
		SDS Number: R1600612
HTH Pool Care 6-Way Test Strips		Version: 1.0

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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