

## SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

### HTH Pool Care Algae Guard Advanced

Version 3.2

Revision Date 2020.05.27

Print Date 2021.04.13

#### SECTION 1. IDENTIFICATION

Product name : HTH Pool Care Algae Guard Advanced

##### Manufacturer or supplier's details

Company : Innovative Water Care, LLC  
1400 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004

Telephone : 1-800-511-6737 (Outside the USA: 1-423-780-2347)  
E-mail address : sds@sigurawater.com  
Emergency telephone number : 1-800-654-6911 (Outside the USA: 1-423-780-2970)

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

Recommended use : Water treatment chemical

#### SECTION 2. HAZARDS IDENTIFICATION

##### GHS Classification

Flammable liquids : Category 3  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Dermal) : Category 4  
Skin corrosion : Category 1B  
Serious eye damage : Category 1  
Specific target organ toxicity -  
single exposure : Category 3

##### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

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	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
Precautionary statements	: <b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof ventilating equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260 Do not breathe vapours. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> 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 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see supplemental first aid instructions on this label). P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P362 + P364 Take off contaminated clothing and wash it before reuse. <b>Storage:</b> P403 + P235 Store in a well-ventilated place. Keep cool. P404 Store in a closed container. P405 Store locked up. <b>Disposal:</b> P501 Dispose of contents/container in accordance with local regulation.

### Other hazards

None known.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Quaternary ammonium chloride

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### Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	68391-01-5	28 - 32
Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	68956-79-6	28 - 32
Ethanol	64-17-5	5 - 10
Amines, C12-18-alkyldimethyl	68391-04-8	1 - 2.5

### 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.
Most important symptoms and effects, both acute and delayed	:	None known.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use dry chemical, water fog, carbon dioxide (CO <sub>2</sub> ), or foam.
Specific hazards during firefighting	:	Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition.
Further information	:	In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus. Use water to cool containers.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable
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- suit, self-contained breathing apparatus.  
 Remove all sources of ignition.  
 Stop source of spill as soon as possible and notify appropriate personnel.  
 Utilize emergency response personal protection equipment prior to the start of any response.  
 Evacuate all non-essential personnel.  
 For disposal considerations see section 13.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
 Do not flush into surface water or sanitary sewer system.

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.  
 Avoid breathing mist or vapor.
- 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.  
 Keep from freezing.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		REL	1,000 ppm 1,900 mg/m3	NIOSH/GUIDE

- Engineering measures** : Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.

#### Personal protective equipment

Hand protection

- Remarks : Wear impervious gloves, boots and apron to avoid skin con-

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	tact. A full impervious suit is recommended if exposure is possible to a large portion of the body.
Eye protection	: Use chemical goggles and a faceshield.
Skin and body protection	: Impervious
Protective measures	: An eye wash and safety shower should be provided in the immediate work area.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Hazy
Colour	: no data available
Odour	: Mild - quaternary ammonium chloride odor
Odour Threshold	: no data available
pH	: ca. 7.5 Concentration: 10 %
Melting point/freezing point	: no data available
Boiling point/boiling range	: no data available
Flash point	: 129 °F / 54 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Flammability (liquids)	: no data available
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: no data available
Relative vapour density	: not determined
Relative density	: no data available
Density	: no data available
Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: not determined
Decomposition temperature	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: not determined
Explosive properties	: No hazards to be specially mentioned.

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Oxidizing properties : no data available

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### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Sparks, open flame, other ignition sources, and elevated temperatures.  
Contact with incompatible substances

Incompatible materials : Oxidizing

Hazardous decomposition products : Ammonium compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

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### SECTION 11. TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Acute oral toxicity : LD50 (Rat): Believed to be 500 - 5,000 mg/kg

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rabbit): Believed to be approximately 2,000 mg/kg

#### Skin corrosion/irritation

Assessment: Corrosive

#### Serious eye damage/eye irritation

Result: Corrosive to eyes

#### Respiratory or skin sensitisation

Remarks: Negative skin sensitizer, guinea pig - Buehler Method

#### Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

#### Carcinogenicity

Result: no data available

#### 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.

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**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.

**ACGIH** Confirmed animal carcinogen with unknown relevance to humans  
Ethanol 64-17-5

**Reproductive toxicity**  
Effects on fertility : Remarks: no data available

**STOT - single exposure**  
Remarks: no data available

**STOT - repeated exposure**  
Remarks: no data available

**Further information**  
Remarks: no data available

**The following toxicological data refer to:**

Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides(CAS-No.: 68391-01-5)

**Skin corrosion/irritation**  
Assessment: Causes burns.

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## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**  
Toxicity to fish : Remarks: no data available

**Persistence and degradability**  
Biodegradability : Result: no data available

**Bioaccumulative potential**  
Bioaccumulation : Remarks: no data available  
Remarks: no data available

**Components:**

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**Ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0.3

**Mobility in soil**

Distribution among environmental compartments : Remarks: 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 : There is no data available for this product.

**The following ecotoxicological data refer to:**

Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides(CAS-No.: 68391-01-5)

**Ecotoxicity**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): = 0.058 mg/l  
Exposure time: 48 h  
Test Type: static test

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.  
As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.



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### SECTION 14. TRANSPORT INFORMATION

#### DOT

**UN number** : 2920  
**Proper shipping name** : Corrosive liquids, flammable, n.o.s.  
(C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides,  
Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Labels** : 8 (3)  
**Emergency Response Guidebook  
Number** : 132  
**Environmental hazards** : yes

#### TDG

**UN number** : 2920  
**Proper shipping name** : CORROSIVE LIQUID, FLAMMABLE, N.O.S.  
(C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides,  
Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Labels** : 8 (3)  
**Environmental hazards** : yes

#### IATA

**UN number** : 2920  
**Proper shipping name** : Corrosive liquid, flammable, n.o.s.  
(C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides,  
Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Labels** : 8 (3)  
**Environmental hazards** : yes

#### IMDG

**UN number** : 2920  
**Proper shipping name** : Corrosive liquid, flammable, n.o.s.  
(C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides,  
Ethanol)  
**Transport hazard class** : 8  
**Packing group** : II  
**Labels** : 8 (3)  
**EmS Number 1** : F-E  
**EmS Number 2** : S-C  
**Environmental hazards** : Marine pollutant: yes

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### ADR

<b>UN number</b>	: 2920
<b>Proper shipping name</b>	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides, Ethanol)
<b>Transport hazard class</b>	: 8
<b>Packing group</b>	: II
Classification Code	: CF1
Hazard Identification Number	: 83
Labels	: 8 (3)
<b>Environmental hazards</b>	: yes

### RID

<b>UN number</b>	: 2920
<b>Proper shipping name</b>	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides, Ethanol)
<b>Transport hazard class</b>	: 8
<b>Packing group</b>	: II
Classification Code	: CF1
Hazard Identification Number	: 83
Labels	: 8 (3)
<b>Environmental hazards</b>	: yes

**Special precautions for user** : none

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

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## 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.**

EPA Registration number	: 1258-1287
Signal word	: DANGER!
Hazard statements	: Harmful if swallowed. Harmful if absorbed through skin. Causes skin irritation. Corrosive - causes irreversible eye damage. This pesticide is toxic to fish.

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

**CERCLA Reportable Quantity**



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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethanol	64-17-5	100	1428

### 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 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 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).

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
Ethanol	64-17-5	5 - 10 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

### 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



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Components	CAS-No.
Ethanol	64-17-5

### Pennsylvania Right To Know

Components	CAS-No.
Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	68956-79-6
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	68391-01-5
Ethanol	64-17-5

### New Jersey Right To Know

Components	CAS-No.
Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	68956-79-6
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	68391-01-5
Ethanol	64-17-5
Amines, C12-18-alkyldimethyl	68391-04-8

### 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.

### Canadian lists

#### NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

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

TSCA : This is an EPA registered pesticide.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH : US. ACGIH Threshold Limit Values  
NIOSH/GUIDE : US. NIOSH: Pocket Guide to Chemical Hazards, as amended

AICS - Australian Inventory of Chemical Substances; 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

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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; 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

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Revision Date : 2020.05.27

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.

Date format : yyyy/mm/dd  
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