

# Material Safety Data Sheet

## CLOROX™ POOL&SPA™ GREEN ALGAE ELIMINATOR

Version: 1.5

Revision Date: 01/16/2015

Print Date: 01/16/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CLOROX™ POOL&SPA™ GREEN ALGAE ELIMINATOR

Product Use Description: Recreational Water Product

Chemical nature: Quaternary ammonium compounds

Registration number: 45309-18-90106

Company: Easy 1 2 3 Pool Care, LLC  
1725 North Brown Road  
Lawrenceville, GA  
30043

Telephone: 800-SOS-POOL (800-767-7665)

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300, 703-527-3887  
Poison Control Center (Medical) :: (877) 800-5553

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department

01/16/2015

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### **DANGER!**

Form: liquid      Colour: light yellow      Odour: Almond-like

Hazard Summary : Combustible liquid  
Corrosive  
Risk of serious damage to eyes.  
Causes skin burns.  
Harmful if swallowed.  
Harmful in contact with skin.

OSHA Hazards : COMBUSTIBLE LIQUID

#### Potential Health Effects

Inhalation : Irritating to respiratory system.

Skin : Causes skin burns.

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Eyes : Risk of serious damage to eyes.  
Ingestion : Harmful if swallowed.  
Symptoms of Overexposure : corrosive effects

### Carcinogenicity:

#### 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 identified as a carcinogen or potential carcinogen by OSHA.

#### 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

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	50 %

### SECTION 4. FIRST AID MEASURES

#### First aid procedures

Inhalation : Remove 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 CENTER or doctor/ physician.

Skin contact : Remove contaminated clothing and shoes.  
Rinse immediately with plenty of water for at least 15 minutes.  
Call a POISON CENTER or doctor/ physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
Call a POISON CENTER or doctor/ physician.

Ingestion : Call a physician or poison control centre immediately.  
Have person sip a glass of water if able to swallow.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Do not give anything by mouth to a convulsing or unconscious person.

#### Notes to physician

Symptoms : corrosive effects

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Treatment : Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.  
For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5. FIREFIGHTING MEASURES

#### Flammable properties

Flash point : 150.01 °F (65.56 °C)  
Method: ASTM D 93

#### Fire fighting

Suitable extinguishing media : Water mist  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Foam

Further information : Products of combustion are toxic.  
Heated solvent vapors can travel to an ignition source and flash back.

#### Protective equipment and precautions for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.  
Soak up with inert absorbent material.  
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.

Additional advice : Treat recovered material as described in the section "Disposal considerations".  
Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

### SECTION 7. HANDLING AND STORAGE

#### Handling

Handling procedures : Avoid contact with skin, eyes and clothing.  
Avoid breathing vapors.  
Mix only with water.  
Always add product to large quantities of water.  
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.  
Do not handle until all safety precautions have been read and understood.

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Do not mix with other chemicals.

Advice on protection against fire and explosion : Heated solvent vapors can travel to an ignition source and flash back.

### Storage

Requirements for storage areas and containers : Store in original container.  
Keep tightly closed.  
Store in a cool, dry, well ventilated area away from heat or open flame.  
Keep out of reach of children.  
Keep away from animals.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

### Engineering measures

Engineering measures : Use with adequate ventilation.  
Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

Eye protection : Goggles  
Safety glasses with side-shields

Hand protection : Wear rubber gloves.

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures : Wash contaminated clothing before reuse.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid  
Colour : light yellow

Odour : Almond-like

### Safety data

Flash point : 150.01 °F (65.56 °C)  
Method: ASTM D 93

pH : 7 - 8

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Melting point/range : Note: not determined  
Boiling point/boiling range : Note: no data available  
Vapour pressure : no data available  
Density : 0.92 g/cm<sup>3</sup>  
Water solubility : Note: completely miscible  
Partition coefficient: n-octanol/water : Note: no data available  
Viscosity, kinematic : Note: no data available  
Relative vapour density : Note: no data available

#### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.  
Poor ventilation.  
Contamination

Materials to avoid : Remarks: Strong acids  
Strong oxidizing agents  
Strong bases  
Do not mix with other swimming pool/spa chemicals in their concentrated forms.

Hazardous decomposition products : Note: Organic vapors.  
Inorganic vapors.  
Carbon oxides

Hazardous reactions : Hazardous polymerisation does not occur.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 970 g/kg  
Species: rat  
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.

Acute dermal toxicity : LD50: 2,000 g/kg  
Species: rabbit  
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.

Skin irritation : Remarks: May cause burns or external ulcers.

Eye irritation : Remarks: Causes eye burns.

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### 12. ECOLOGICAL INFORMATION

#### Toxicity to fish

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : LC50: 0.93 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

LC50: 0.515 mg/l  
Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill)

#### Toxicity to daphnia and other aquatic invertebrates

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : EC50: 0.016 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

#### Bioaccumulation

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : Bioconcentration factor (BCF): 79

#### Biodegradability

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : Result: Readily biodegradable.  
> 90 %

#### Further information on ecology

Additional ecological information : Toxic to fish.  
Toxic to aquatic organisms.  
Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.

Contaminated packaging : Rinse thoroughly before discarding in trash.  
Do not re-use empty containers.  
Offer rinsed packaging material to local recycling facilities.

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### SECTION 14. TRANSPORT INFORMATION

#### **DOT**

UN number : 1760  
Description of the goods : Corrosive liquids, n.o.s.  
(Quaternary ammonium compounds)  
Class : 8  
Packing group : II  
ERG Code : 154

#### **IATA**

UN number : 1760  
Description of the goods : Corrosive liquid, n.o.s.  
(Quaternary ammonium compounds)  
Class : 8  
Packing group : II  
Labels : 8  
Environmentally hazardous : yes

#### **IMDG**

UN number : 1760  
Description of the goods : CORROSIVE LIQUID, N.O.S.  
(Quaternary ammonium compounds)  
Class : 8  
Packing group : II  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
Marine pollutant : yes  
Quaternary ammonium compounds  
Environmentally hazardous : yes  
Quaternary ammonium compounds

Not recommended for shipment by air  
Limited Quantity exemption possible

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Combustible Liquid

**CERCLA Reportable Quantity** :

**SARA 302 Reportable Quantity** :

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard

**SARA 302 Reportable** :

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### Quantity

**SARA 304 Components** : This material does not contain any components with a section 304 EHS RQ.

**Pennsylvania Right To Know Components** : Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1  
water 7732-18-5

**New Jersey Right To Know Components** : Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1  
water 7732-18-5

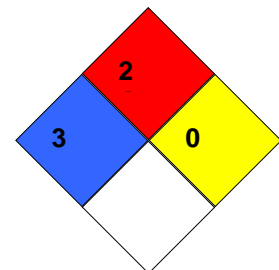
**California Prop. 65 Components** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.  
  
On the inventory, or in compliance with the inventory

### SECTION 16. OTHER INFORMATION

#### Further information

**HMIS Classification** : Health hazard: 3  
Flammability: 2  
Physical hazards: 0  
PPI:Ask supervisor or safety specialist for handling instructions

**NFPA Classification** : Health hazard: 3  
Fire Hazard: 2 Class IIIA  
Combustible Liquid  
Reactivity Hazard: 0





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