

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : GreenClean Granular Algaecide  
Product code : SDS-3012

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

BioSafe Systems, LLC  
22 Meadow Street  
East Hartford, Hartford, Connecticut 06108  
USA  
T 1-888-273-3088  
[www.BioSafeSystems.com](http://www.BioSafeSystems.com)

#### 1.4. Emergency telephone number

Emergency number : 1-888-273-3088 | Chemtrec: 1-800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|  |      |                              |
|--|------|------------------------------|
| Oxidizing solids Category 2                  | H272 | May intensify fire; oxidizer |
| Serious eye damage/eye irritation Category 1 | H318 | Causes serious eye damage    |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : H272 - May intensify fire; oxidizer  
H318 - Causes serious eye damage

Precautionary statements (GHS US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, P220 - Keep/Store away from clothing and other combustible materials, P221 - Take any precaution to avoid mixing with combustibles, P280 - Wear protective gloves/protective clothing/eye protection/face protection, P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, P310 - Immediately call a poison center or doctor, P370+P378 - In case of fire: Use media other than water to extinguish, P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                           | Product identifier  | %       |
|--------------------------------|---------------------|---------|
| Sodium Carbonate Peroxyhydrate | CAS-No.: 15630-89-4 | 50 – 55 |

# GreenClean Granular Algaecide

## Safety Data Sheet

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| Name             | Product identifier | %       |
|------------------|--------------------|---------|
| Sodium Carbonate | CAS-No.: 497-19-8  | 50 – 55 |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after eye contact : Serious damage to eyes.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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### GreenClean Granular Algaecide

No additional information available

### Sodium Carbonate Peroxyhydrate (15630-89-4)

No additional information available

### Sodium Carbonate (497-19-8)

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

### Materials for protective clothing:

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                                |
|---|--------------------------------|
| Physical state                                  | : Solid                        |
| Appearance                                      | : White, granular solid.       |
| Color   | : white                        |
| Odor  | : Odourless                    |
| Odor threshold                                  | : No data available            |
| pH  | : 10.4 – 10.6                  |
| Melting point                                   | : No data available            |
| Freezing point                                  | : Not applicable               |
| Boiling point                                   | : No data available            |
| Flash point                                     | : Not applicable               |
| Relative evaporation rate (butyl acetate=1)     | : No data available            |
| Flammability                                    | : Non flammable.               |
| Vapor pressure                                  | : No data available            |
| Relative vapor density at 20°C                  | : No data available            |
| Relative density                                | : 950 – 1200 kg/m <sup>3</sup> |
| Solubility                                      | : Water: 140 g/l               |
| Partition coefficient n-octanol/water (Log Pow) | : No data available            |

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|                           |                     |
|---------------------------|---------------------|
| Auto-ignition temperature | : Not applicable    |
| Decomposition temperature | : No data available |
| Viscosity, kinematic      | : Not applicable    |
| Viscosity, dynamic        | : No data available |
| Explosion limits          | : Not applicable    |
| Explosive properties      | : No data available |
| Oxidizing properties      | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Sodium Carbonate Peroxyhydrate (15630-89-4)

|                    |  |
|--------------------|--|
| LD50 oral rat      | 1034 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg body weight Animal: rabbit, Guideline: other:                       |
| ATE US (oral)      | 1034 mg/kg body weight   |

#### Sodium Carbonate (497-19-8)

|                       |   |
|-----------------------|---|
| LD50 oral rat         | 2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))    |
| LD50 dermal rabbit    | > 2000 mg/kg (16 CFR 1500.40, 24 h, Rabbit, Experimental value, Dermal) |
| LC50 Inhalation - Rat | 2.3 mg/l (2 h, Rat, Male, Experimental value, Inhalation (aerosol))     |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Not classified<br>pH: 10.4 – 10.6             |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: 10.4 – 10.6 |
| Respiratory or skin sensitization | : Not classified                                |
| Germ cell mutagenicity            | : Not classified                                |
| Carcinogenicity                   | : Not classified                                |
| Reproductive toxicity             | : Not classified                                |
| STOT-single exposure              | : Not classified                                |
| STOT-repeated exposure            | : Not classified                                |
| Aspiration hazard                 | : Not classified                                |
| Viscosity, kinematic              | : Not applicable                                |

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Symptoms/effects after eye contact : Serious damage to eyes.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| Sodium Carbonate Peroxyhydrate (15630-89-4) |  |
|---|--|
| LC50 - Fish [1]                             | 70.7 mg/l Source: EPA guideline, SIDS            |
| EC50 - Crustacea [1]                        | 4.9 mg/l Test organisms (species): Daphnia pulex |
| ErC50 algae                                 | > 7.7 mg/l Source: SIDS                          |

| Sodium Carbonate (497-19-8) |  |
|-----------------------------|--|
| LC50 - Fish [1]             | 300 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal)                   |
| EC50 - Crustacea [1]        | 200 – 227 mg/l (48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 - Crustacea [2]        | 200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.  |

#### 12.2. Persistence and degradability

| Sodium Carbonate Peroxyhydrate (15630-89-4) |   |
|---|---|
| Persistence and degradability               | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Chemical oxygen demand (COD)                | Not applicable (inorganic)  |
| ThOD  | Not applicable (inorganic)  |

| Sodium Carbonate (497-19-8)   |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable (inorganic)        |
| ThOD                          | Not applicable (inorganic)        |

#### 12.3. Bioaccumulative potential

| Sodium Carbonate Peroxyhydrate (15630-89-4) |                      |
|---|----------------------|
| Bioaccumulative potential                   | Not bioaccumulative. |

| Sodium Carbonate (497-19-8)                     |                         |
|---|-------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -6.19 (Estimated value) |
| Bioaccumulative potential                       | Not bioaccumulative.    |

#### 12.4. Mobility in soil

| Sodium Carbonate Peroxyhydrate (15630-89-4) |                                       |
|---|---------------------------------------|
| Surface tension                             | No data available in the literature   |
| Ecology - soil                              | Low potential for adsorption in soil. |

| Sodium Carbonate (497-19-8) |                                       |
|-----------------------------|---------------------------------------|
| Surface tension             | No data available in the literature   |
| Ecology - soil              | Low potential for adsorption in soil. |

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### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

| DOT                                     | TDG            | IMDG           | IATA           |
|---|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |
| Not regulated for transport             |                |                |                |
| <b>14.2. Proper Shipping Name</b>       |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |

### 14.6. Special precautions for user

#### DOT

DOT Special Provisions (49 CFR 172.102) :

#### TDG

No data available

#### IMDG

No data available

#### IATA

No data available

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### FIFRA Labelling

|                         |         |
|-------------------------|---------|
| EPA Registration Number | 70299-4 |
|-------------------------|---------|

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### FIFRA Labelling

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.

### 15.2. International regulations

#### CANADA

##### Sodium Carbonate Peroxyhydrate (15630-89-4)

Listed on the Canadian DSL (Domestic Substances List)

##### Sodium Carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

##### Sodium Carbonate (497-19-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component                                  | State or local regulations                                     |
|--|--|
| Sodium Carbonate Peroxyhydrate(15630-89-4) | U.S. - New York City - Right to Know Hazardous Substances List |

## SECTION 16: Other information

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### Full text of H-phrases

|      |                              |
|------|------------------------------|
| H272 | May intensify fire; oxidizer |
| H318 | Causes serious eye damage    |

Safety Data Sheet (SDS), BSS

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