



**Trade name:** Lake Guard™ Oxy

**SECTION 1: Identification**

**Product identifier used on the label:**

**Product Name:** Lake Guard™ Oxy

**Other means of identification:**

**Product Code Number:**

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

**Recommended use:** Algacide, biocide.

**Recommended restrictions:** Uses other than as recommended above.

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**

**Company Name:** BlueGreen Water Technologies Ltd.

**Company Address:** 3/15 Kachal St.  
Tzur Hadassah  
9987500  
Israel

**Company Telephone:** +972-2-6301166

**Company Contact Email:** info@bgtechs.com

**Emergency phone number:** +1-800-255-3924

**SECTION 2: Hazard(s) identification**

**UNITED STATES:**

**Classification of the chemical in accordance with paragraph (d) of §1910.1200:**

**Physical hazards**

Oxidizing solids, Category 3.

**Health hazards**

Acute Toxicity, Oral, Category 2.

Acute Toxicity, Dermal, Category 4.

Skin corrosion, Category 1A.

Serious eye damage, Category 1.

Acute Toxicity, Inhalation, Category 4.

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## **Environmental hazards**

None known

## **GHS Signal word:**

**DANGER.**

## **GHS Hazard statement(s):**

May intensify fire; oxidizer  
Fatal if swallowed.  
Harmful in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.

## **GHS Hazard symbol(s):**



## **GHS Precautionary statement(s):**

### **Prevention:**

- Keep away from heat.
- Keep/Store away from clothing combustible materials.
- Take any precaution to avoid mixing with combustibles.
- Do not breathe dust/fume/gas/mist/ vapors/spray
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.

### **Response:**

- If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- 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.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use water spray/fog, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

### **Storage:**

- Store locked up.

### **Disposal:**

- Dispose of contents/containers to an approved disposal site in accordance with local/regional/national/international regulations.

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## Hazard(s) not otherwise classified (HNOC):

None known.

## Percentage of ingredient(s) of unknown acute toxicity:

16.7% of the mixture consists of ingredients of unknown acute toxicity (inhalation).

### SECTION 3: Composition/information on ingredients

#### Mixture:

| Chemical name       | CAS#        | Concentration (weight %) |
|---------------------|-------------|--------------------------|
| Sodium percarbonate | 15630-89-4  | 83.3%                    |
| Other ingredients*  | Proprietary | 16.7%                    |

\*Note: The exact concentration has been withheld as a trade secret.

The balance of the ingredients is not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

### SECTION 4: First-aid measures

#### Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

**Inhalation:** 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.

**Skin contact:** 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.

**Eye contact:** 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. Call a poison control center or doctor for treatment advice.

**Ingestion:** 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 by a poison control center or doctor. Do not give anything to an unconscious person.

#### Most important symptoms/effects, acute and delayed:

Fatal if swallowed. Harmful in contact with skin or if inhaled. Causes severe skin burns and eye damage.

May cause nose, throat, and lung irritation if inhaled.

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If in contact with eyes: Symptoms: Redness; lachrymation; swelling of tissue. Effects: Severe eye irritation; risk of serious damage to eyes.

If ingested: Symptoms: Severe irritation; nausea; abdominal pain; vomiting; diarrhea.

## **Indication of immediate medical attention and special treatment needed:**

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)). For emergencies, call the poison control center 1-800-222-1222.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

## **SECTION 5: Fire-fighting measures**

### **Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:** Use water spray/fog, alcohol-resistant foam, dry chemical or carbon dioxide as suitable for surrounding materials.

**Unsuitable extinguishing media:** Do not use direct streams of water such as water jet.

### **Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):**

Oxidizing. Oxygen released in thermal decomposition may support combustion. Contact with combustible material may cause fire. Contact with flammables may cause fire or explosions. Risk of explosion if heated under confinement.

Hazardous combustion products: During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

Hazardous combustion products include CO (Carbon monoxide), CO<sub>2</sub> (Carbon dioxide), Oxygen.

### **Special protective equipment and precautions for fire-fighters:**

Fight fire from a protected location. Wear self-contained breathing apparatus and protective clothing. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures:**

Wear appropriate protective equipment, such as gloves, goggles and protective clothing, as conditions warrant (see Section 8). Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid contact with skin and eyes. Evacuate personnel to safe areas. Keep out of the reach of children. See Sections 2 and 7 for additional information on hazards and precautionary measures.

### **Environmental Hazards**

This pesticide is toxic to birds. This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment. Do not apply this product or allow it to drift to crops where beneficial insects are part of an integrated pest management strategy. Do not contaminate water by cleaning of equipment or disposal of wash waters.

### **Methods and materials for containment and cleaning up:**

Pick up and arrange disposal without creating dust. Sweep up and shovel into suitable

containers for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal. Prevent further leakage or spillage if safe to do so. Do not let product enter the drains. Do not allow to enter streams, rivers or any other waterways.

## SECTION 7: Handling and storage

### **Precautions for safe handling:**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Oxidizing agent. Never use with other pesticides, cleaners, or oxidizing agents.

This pesticide is toxic to birds. This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment. Do not apply this product or allow it to drift to crops where beneficial insects are part of an integrated pest management strategy. Do not contaminate water by cleaning of equipment or disposal of wash waters.

For container sizes 50 lbs. or greater: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of U.S. EPA.

Conditions for safe storage, including any incompatibles:

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep pesticide in original container. Do not use in food or drink containers.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray, mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

**SECTION 8: Exposure controls/personal protection**

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

| <b>US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)<br/>(Table Z-1 Limits for Air Contaminants):</b> |                             |                              |
|-----------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|
| <b>Substance</b>                                                                                    | <b>PEL-TWA<br/>(8 hour)</b> | <b>PEL-STEL<br/>(15 min)</b> |
| Sodium percarbonate                                                                                 | No data available           | No data available            |
| Other ingredients                                                                                   | No data available           | No data available            |

| <b>US ACGIH Threshold Limit Values</b> |                             |                              |
|----------------------------------------|-----------------------------|------------------------------|
| <b>Substance</b>                       | <b>TLV-TWA<br/>(8 hour)</b> | <b>TLV-STEL<br/>(15 min)</b> |
| Sodium percarbonate                    | No data available           | No data available            |
| Other ingredients                      | No data available           | No data available            |

**Appropriate engineering controls:** During industrial use; use material in well-ventilated area only. Good general ventilation (typically 10 air changes per hour) should be sufficient in most cases. Ventilation rates should be matched to conditions. Maintain airborne levels to an acceptable level. Use appropriate personal protective equipment and clothing.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Use goggles and a face shield that has been tested and approved under appropriate government standards such as NIOSH(US).

**Skin and hand protection:**

Corrosive: Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Protective eyewear (goggles or face shield)
- Shoes plus socks

Some materials that are chemical-resistant to this product are polyvinyl chloride, nitrile rubber, or butyl rubber. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated by this product. Do not reuse them.

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Respiratory protection:** Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US). Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**General hygiene considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## SECTION 9: Physical and chemical properties

### Appearance (physical state, color, etc.):

|                                          |                             |
|------------------------------------------|-----------------------------|
| Physical state:                          | Solid (Granular)            |
| Color:                                   | Pure white (Neutrals 9/0.5) |
| Odor:                                    | Odorless                    |
| Odor threshold:                          | Not available               |
| pH:                                      | 10.4-10.6 (1% solution)     |
| Melting point/freezing point:            | Decomposition at T>140°C    |
| Initial boiling point and boiling range: | Decomposition at T>140°C    |
| Flash point:                             | >230°C                      |
| Evaporation rate:                        | No data available           |
| Flammability (solid, gas):               | Oxidizer                    |

### Upper/lower flammability or explosive limits

|                                          |                                                                         |
|------------------------------------------|-------------------------------------------------------------------------|
| Flammability limit – lower %:            | No data available                                                       |
| Flammability limit – upper %:            | No data available                                                       |
| Explosive limit – lower %:               | No data available                                                       |
| Explosive limit – upper %:               | No data available                                                       |
| Vapor pressure:                          | No data available                                                       |
| Vapor density:                           | No data available                                                       |
| Bulk density:                            | 700-1200 kg/m <sup>3</sup>                                              |
| Relative density (Specific Gravity):     | 1.93 g/cm <sup>3</sup>                                                  |
| Solubility (ies):                        | soluble in water, solubility 140 g/L                                    |
| Partition coefficient (n-octanol/water): | No data available                                                       |
| Auto-ignition temperature:               | No data available                                                       |
| Decomposition temperature:               | Self-accelerating decomposition with oxygen release starting from 65°C. |
| Viscosity (dynamic):                     | No data available                                                       |

## SECTION 10: Stability and reactivity

|                                            |                                                                                                                                                                                                                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | Decomposes when moist, heated, direct sun and when contacts with acids, solvents, heavy metal salts.                                                                                                                                                                                         |
| <b>Chemical stability:</b>                 | Material is stable under normal conditions, at temperature <30°C.                                                                                                                                                                                                                            |
| <b>Possibility of hazardous reactions:</b> | Potential of exothermic hazard. Contact with combustible material may cause decomposition and fire. Contact with flammable compounds and its vapors may cause fire or explosions. Risk of explosion if heated under confinement. Fire or intense heat may cause violent rupture of packages. |
| <b>Conditions to avoid:</b>                | Exposure to moisture. To avoid thermal decomposition, do not overheat more than 50°C.                                                                                                                                                                                                        |
| <b>Incompatible materials:</b>             | Avoid contact with water; acids; bases; heavy metal salts; reducing agents; organic materials; solvents, solvent vapors, flammable materials; combustible materials.                                                                                                                         |
| <b>Hazardous decomposition Products:</b>   | If involved in a fire, Carbon oxides and oxygen may be generated. Long overheating more than 50°C oxygen be generated.                                                                                                                                                                       |

## SECTION 11: Toxicological information

### Information on likely routes of exposure:

|                    |                                  |
|--------------------|----------------------------------|
| <b>Inhalation:</b> | Expected to be a route of entry. |
| <b>Ingestion:</b>  | Expected to be a route of entry. |
| <b>Skin:</b>       | Expected to be a route of entry. |
| <b>Eyes:</b>       | Expected to be a route of entry. |

**Target Organs:** None known.

### Symptoms related to the physical, chemical, and toxicological characteristics:

Fatal if swallowed. Harmful in contact with skin or if inhaled. Causes severe skin burns and eye damage.

### Delayed and immediate effects and chronic effects from short or long-term exposure:

None known.

### Numerical measures of toxicity (such as acute toxicity estimates):

### Ingredient Information:



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| Substance           | Test Type (species)               | Value                           |
|---------------------|-----------------------------------|---------------------------------|
| Sodium percarbonate | LD <sub>50</sub> Dermal (Rat)     | > 2000 mg/kg                    |
|                     | LC <sub>50</sub> Inhalation (Rat) | > 4,800 mg/m <sup>3</sup> - 1 h |
|                     | LC <sub>50</sub> Inhalation (Rat) | > 4,800 mg/m <sup>3</sup> - 1 h |
| Other ingredients   | LD <sub>50</sub> Dermal (Rat)     | > 4000 mg/kg                    |
|                     | LC <sub>50</sub> Inhalation (Rat) | > 4000 mg/kg                    |
|                     | LC <sub>50</sub> Inhalation (Rat) | No data available               |

- Skin corrosion/irritation:** Causes severe skin burns.
- Serious eye damage/eye irritation:** Causes serious eye damage.
- Respiratory sensitization:** Not expected to cause respiratory sensitization.
- Skin sensitization:** Not expected to cause allergic reactions.
- Germ cell mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).
- Carcinogenicity:** This product does not contain any ingredient designated as probable or suspected human carcinogens by: NTP, IARC, OSHA, ACGIH.
- Reproductive toxicity:** Not expected to cause reproductive toxicity.  
Carbonic acid sodium salt (1:2). Mouse, female.  
Application Route: Oral.  
NOAEL Teratogenicity: ≥ 580 mg/kg  
NOAEL Maternal: ≥ 580 mg/kg  
Method: according to a standardized method no embryotoxic or teratogenic effects have been observed.
- Specific target organ toxicity- Single exposure:** The substance or mixture is not expected to cause specific target organ toxicity after a single exposure.
- Specific target organ toxicity- Repeat exposure:** The substance or mixture is not expected to cause specific target organ toxicity after repeated exposure.
- Aspiration hazard:** This product is not anticipated to be an aspiration hazard if swallowed.

**SECTION 12: Ecological information**

**Ecotoxicity (aquatic and terrestrial, where available):**

**Product data:** This pesticide is toxic to birds. This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds.

**Ingredient Information:**

| Substance           | Test Type        | Species                                     | Value             |
|---------------------|------------------|---------------------------------------------|-------------------|
| Sodium percarbonate | LC <sub>50</sub> | Fish - Pimephales promelas (fathead minnow) | 71 mg/L – 48 h    |
|                     | EC <sub>50</sub> | Daphnia pulex (Freshwater Water flea)       | 4.9 mg/L – 48 h   |
|                     | EC <sub>50</sub> | Algae                                       | No data available |
| Other ingredients   | LC <sub>50</sub> | Fish                                        | No data available |
|                     | EC <sub>50</sub> | Daphnia                                     | No data available |
|                     | EC <sub>50</sub> | Algae                                       | No data available |

**Persistence and Degradability:** This product is considered to be readily degradable (complete degradation within 24-48 hours).

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** Water: Considerable solubility and mobility.  
Soil/sediments: Non-significant adsorption

**Other adverse effects (such as hazardous to the ozone layer):** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION 13: Disposal considerations**

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.**

**Product** - Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray, mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Contaminated packaging** - Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

Waste code: Environmental Protection Agency  
Hazardous Waste – YES  
RCRA Hazardous Waste (40 CFR 302)  
D001 - Ignitable waste – (I)

## SECTION 14: Transport Information

### US Department of Transportation Classification (49CFR)

**UN Number:** UN 3378  
**UN proper shipping name:** SODIUM CARBONATE PEROXYHYDRATE  
**Transport hazard class(s):** 5.1  
**Packing group:** III

### IMDG (Transport by sea)

**UN Number:** UN 3378  
**UN proper shipping name:** SODIUM CARBONATE PEROXYHYDRATE  
**Transport hazard class(s):** 5.1  
**Packing group:** III

### IATA (Transport by air)( Country variations may apply)

**UN Number:** UN 3378  
**UN proper shipping name:** SODIUM CARBONATE PEROXYHYDRATE  
**Transport hazard class(s):** 5.1  
**Packing group:** III

### Environmental hazards

Marine pollutant: No

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

No further relevant information available.

### Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

No data available.

## SECTION 15: Regulatory Information

### USA:

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

**Toxic Substances Control Act (TSCA)** – All the ingredients are listed/registered or exempted on the U.S. EPA TSCA Inventory List.

### STATE REGULATIONS:

This SDS does not contain specific health and safety data that is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

### SARA 302 Components:

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

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## **SARA 313 Components:**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Sodium percarbonate                      CAS-No. 7758-99-8

## **SARA 311/312 Hazards:**

Oxidizer (solid)

Acute toxicity

Skin Corrosion or Irritation

Serious eye damage or eye irritation

## **Massachusetts Right to Know Components:**

None of the ingredients are listed on the Massachusetts Right to Know list.

## **Pennsylvania Right to Know Components:**

None of the ingredients are listed on the Pennsylvania Right to Know list.

## **New Jersey Right to Know Components:**

None of the ingredients are listed on the New Jersey Right to Know list.

## **California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986) Components:**

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

## **SECTION 16: Other Information**

Revision Date: May 17, 2020

DISCLAIMER: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 1910.1200. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.