SAFETY DATA SHEET
SOLID OXY-GUARD

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SOLID OXY-GUARD
Other means of identification : Not applicable
Recommended use : Laundry product
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : 0.01 % - 0.06 %

Company : Ecolab Inc.
1 Ecolab Place
St. Paul, Minnesota USA 55102
1-800-352-5326

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 03/11/2019

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Product AS SOLD
Acute toxicity (Oral) : Category 4
Serious eye damage : Category 1

Product AT USE DILUTION
Not a hazardous substance or mixture.

GHS label elements
Product AS SOLD
Hazard pictograms :

Signal Word : Danger
Hazard Statements : Harmful if swallowed. Causes serious eye damage.
Precautionary Statements :
Prevention: Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/ face protection.
Response: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. 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: Dispose of contents/ container to an approved waste disposal plant.
Precautionary Statements:

Prevention:
Wash hands thoroughly after handling.

Response:
Get medical advice/attention if you feel unwell.

Storage:
Store in accordance with local regulations.

Product AS SOLD

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture: Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate peroxide</td>
<td>15630-89-4</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>30 - 60</td>
</tr>
<tr>
<td>sodium chloride</td>
<td>7647-14-5</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Dodecylbenzenesulfonic acid, sodium salt</td>
<td>25155-30-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium silicate</td>
<td>1344-09-8</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact: Rinse with plenty of water.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed: See Section 11 for more detailed information on health effects and symptoms.

Product AT USE DILUTION

In case of eye contact: Rinse with plenty of water.

In case of skin contact: Rinse with plenty of water.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Get medical attention if symptoms occur.
SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD
Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials:
                                Carbon oxides
                                Sulfur oxides

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD
Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

Product AT USE DILUTION
Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer system.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD
Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.
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Conditions for safe storage: Keep out of reach of children. Store in suitable labeled containers.

Storage temperature: 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling: Wash hands after handling. For personal protection see section 8.

Conditions for safe storage: Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSOANL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection: Wear eye protection/face protection.

Hand protection: No special protective equipment required.

Skin protection: No special protective equipment required.

Respiratory protection: No personal respiratory protective equipment normally required.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

Engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection: No special protective equipment required.

Hand protection: No special protective equipment required.

Skin protection: No special protective equipment required.

Respiratory protection: No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>opaque, white</td>
<td>colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
<td>odorless</td>
</tr>
<tr>
<td>pH</td>
<td>10.0 - 11.0, (1 %)</td>
<td>7.0 - 9.0</td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

**SOLID OXY-GUARD**

- Flash point: Not applicable
- Odor Threshold: No data available
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Evaporation rate: No data available
- Flammability (solid, gas): No data available
- Upper explosion limit: No data available
- Lower explosion limit: No data available
- Vapor pressure: No data available
- Relative vapor density: No data available
- Relative density: No data available
- Water solubility: insoluble
- Solubility in other solvents: No data available
- Partition coefficient: n-octanol/water: No data available
- Autoignition temperature: No data available
- Thermal decomposition: No data available
- Viscosity, kinematic: No data available
- Explosive properties: No data available
- Oxidizing properties: yes
- Molecular weight: No data available
- VOC: No data available

**SECTION 10. STABILITY AND REACTIVITY**

**Product AS SOLD**

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: None known.

Incompatible materials: Bases, Metals, Organic materials, Acids

Hazardous decomposition products: In case of fire hazardous decomposition products may be produced such as: Carbon oxides, Sulfur oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure: Eye contact, Skin contact
Potential Health Effects

**Product AS SOLD**

**Eyes** : Causes serious eye damage.

**Skin** : Health injuries are not known or expected under normal use.

**Ingestion** : Harmful if swallowed.

**Inhalation** : Health injuries are not known or expected under normal use.

**Chronic Exposure** : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION**

**Eyes** : Health injuries are not known or expected under normal use.

**Skin** : Health injuries are not known or expected under normal use.

**Ingestion** : Health injuries are not known or expected under normal use.

**Inhalation** : Health injuries are not known or expected under normal use.

**Chronic Exposure** : Health injuries are not known or expected under normal use.

Experience with human exposure

**Product AS SOLD**

**Eye contact** : Redness, Pain, Corrosion

**Skin contact** : No symptoms known or expected.

**Ingestion** : No information available.

**Inhalation** : No symptoms known or expected.

**Product AT USE DILUTION**

**Eye contact** : No symptoms known or expected.

**Skin contact** : No symptoms known or expected.

**Ingestion** : No symptoms known or expected.

**Inhalation** : No symptoms known or expected.

Toxicity

**Product AS SOLD**

**Acute oral toxicity** : Acute toxicity estimate : 1,749 mg/kg

**Acute inhalation toxicity** : No data available

**Acute dermal toxicity** : No data available

**Skin corrosion/irritation** : No data available
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Serious eye damage/eye irritation : No data available
Respiratory or skin sensitization : No data available
Carcinogenicity : No data available
Reproductive effects : No data available
Germ cell mutagenicity : No data available
Teratogenicity : No data available
STOT-single exposure : No data available
STOT-repeated exposure : No data available
Aspiration toxicity : No data available

Components

Acute dermal toxicity : sodium chloride
   LD50 Rabbit: > 10,000 mg/kg

   Sodium silicate
   LD50 Rat: > 5,000 mg/kg
   Test substance: Information given is based on data obtained from similar substances.

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD
Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : No data available
Toxicity to daphnia and other aquatic invertebrates : No data available
Toxicity to algae : No data available

Components

Toxicity to fish : Sodium Carbonate
   96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l

   sodium chloride
   96 h LC50 Fish: 5,840 mg/l

   Dodecylbenzenesulfonic acid, sodium salt
   96 h LC50 Fish: 3.2 mg/l

   Sodium silicate
   96 h LC50 Oncorhynchus mykiss (rainbow trout): 260 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : Sodium carbonate peroxide
   48 h EC50 Daphnia: 4.9 mg/l

   Sodium Carbonate
   48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l
Sodium silicate
48 h EC50 Daphnia magna (Water flea): 1,700 mg/l

Components
Toxicity to algae: Sodium silicate
72 h EC50 Desmodesmus subspicatus (green algae): 207 mg/l

Persistence and degradability
Product AS SOLD
Readily biodegradable.

Product AT USE DILUTION
Not applicable - inorganic

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD
Disposal methods: Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

Product AT USE DILUTION
Disposal methods: Diluted product can be flushed to sanitary sewer.

Disposal considerations: Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD
The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)
Not dangerous goods

Sea transport (IMDG/IMO)
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodecylbenzenesulfonic acid, sodium salt</td>
<td>25155-30-0</td>
<td>1000</td>
<td>22222</td>
</tr>
</tbody>
</table>

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

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

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

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.

California Prop. 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

California Cleaning Product Right to Know Act of 2017 (SB 258)
This regulation applies to this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Function</th>
<th>List(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate peroxide</td>
<td>15630-89-4</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>Buffer</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>sodium chloride</td>
<td>7647-14-5</td>
<td>Processing Aid</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Organic salt</td>
<td>Withheld</td>
<td>Buffer</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Dodecylbenzenesulfonic acid, sodium salt</td>
<td>25155-30-0</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

*refer to ecolab.com/sds for electronic links to designated lists

The ingredients of this product are reported in the following inventories:

United States TSCA Inventory:
On the inventory, or in compliance with the inventory

Canadian Domestic Substances List (DSL):
All components of this product are on the Canadian DSL

Australia Inventory of Chemical Substances (AICS):
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances:
On the inventory, or in compliance with the inventory
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Japan. ENCS - Existing and New Chemical Substances Inventory:
On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI):
On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS):
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC):
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI):
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD
NFPA:

Flammability

Health
0
3

Instability
0

Special hazard.

HMIS III:

HEALTH 3

FLAMMABILITY 0

PHYSICAL HAZARD 0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Product AT USE DILUTION
NFPA:

Flammability

Health
0
0

Instability
0

Special hazard.

HMIS III:

HEALTH 0

FLAMMABILITY 0

PHYSICAL HAZARD 0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Issuing date: 03/11/2019
Version: 1.2
Prepared by: Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material 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.