

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : OPX UNIT DOSE DETERGENT

Other means of identification : Not applicable

Recommended use : Laundry detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.05 % - 0.1 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

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

Issuing date : 07/06/2015

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**
**Product AS SOLD**

Skin irritation : Category 2

Serious eye damage : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element**
**Product AS SOLD**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes skin irritation.  
Causes serious eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Wear eye protection/ face protection. Wear protective gloves.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water. 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 or doctor/ physician. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Product AT USE DILUTION**

Precautionary Statements : **Prevention:**

## SAFETY DATA SHEET

### OPX UNIT DOSE DETERGENT

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

| Chemical Name                  | CAS-No.                | Concentration (%) |
|--------------------------------|------------------------|-------------------|
| Sodium Carbonate(soda)         | 497-19-8               | 30 - 60           |
| zeolite                        | 1318-02-1              | 10 - 30           |
| alcohol ethoxylate             | 68551-12-2             | 10 - 30           |
| sodium metasilicate            | 6834-92-0              | 1 - 5             |
| Sodium carbonate peroxyhydrate | 15630-89-4             | 1 - 5             |
| precipitated silica            | 112926-00-8            | 1 - 5             |
| Fragrance                      | Proprietary Ingredient | 0.1 - 1           |

**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 : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Get medical attention if irritation develops and persists.
- 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.

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## OPX UNIT DOSE DETERGENT

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  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

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### OPX UNIT DOSE DETERGENT

#### Product AS SOLD

Advice on safe handling : Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.

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/PERSONAL PROTECTION

#### Product AS SOLD

##### Ingredients with workplace control parameters

| Ingredients         | CAS-No.     | Form of exposure          | Permissible concentration                      | Basis     |
|---------------------|-------------|---------------------------|--|-----------|
| zeolite             | 1318-02-1   | TWA (Respirable fraction) | 1 mg/m <sup>3</sup>                            | ACGIH     |
| precipitated silica | 112926-00-8 | TWA (Dust)                | 20 millions of particles per cubic foot of air | OSHA Z3   |
|                     |             | TWA (Dust)                | 80 mg/m <sup>3</sup> / %SiO <sub>2</sub>       | OSHA Z3   |
|                     |             | TWA                       | 6 mg/m <sup>3</sup>                            | NIOSH REL |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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

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|                        |   |
|------------------------|---|
| 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

|   | Product AS SOLD     | Product AT USE DILUTION |
|---|---------------------|-------------------------|
| Appearance                              | : powder            | liquid                  |
| Color                                   | : opaque, white     | colorless               |
| Odor                                    | : Floral            | Floral                  |
| pH                                      | : 10.5 - 11.2, 1 %  | 7.0 - 9.0               |
| 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                        | : soluble           |                         |
| 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                    | : No data available |                         |
| 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. |

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|                                  |   |
|----------------------------------|---|
| Conditions to avoid              | : None known.   |
| Incompatible materials           | : None known.   |
| Hazardous decomposition products | : Decomposition products may include the following materials:<br>Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> )<br>Sulfur oxides<br>Oxides of phosphorus |

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

##### Potential Health Effects

###### Product AS SOLD

|                  |   |
|------------------|---|
| Eyes             | : Causes serious eye damage.                                  |
| Skin             | : Causes skin irritation.                                     |
| 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. |

###### 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 | : Redness, Irritation            |
| Ingestion    | : No symptoms known or expected. |
| 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. |

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### OPX UNIT DOSE DETERGENT

#### Toxicity

##### Product AS SOLD

|                                   |   |
|-----------------------------------|---|
| Acute oral toxicity               | : Acute toxicity estimate : 2,589 mg/kg |
| Acute inhalation toxicity         | : No data available                     |
| Acute dermal toxicity             | : No data available                     |
| Skin corrosion/irritation         | : No data available                     |
| 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                     |

##### Ingredients

|                           |                                       |
|---------------------------|---------------------------------------|
| Acute inhalation toxicity | : zeolite<br>4 h LC50 Rat: > 5.3 mg/l |
|---------------------------|---------------------------------------|

##### Ingredients

|                       |  |
|-----------------------|--|
| Acute dermal toxicity | : zeolite<br>LD50 Rabbit: > 2,000 mg/kg<br><br>alcohol ethoxylate<br>LD50 Rabbit: > 2,000 mg/kg<br><br>precipitated silica<br>LD50 Rabbit: > 5,000 mg/kg |
|-----------------------|--|

### SECTION 12. ECOLOGICAL INFORMATION

##### Product AS SOLD

##### Ecotoxicity

|                       |                            |
|-----------------------|----------------------------|
| Environmental Effects | : Harmful 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 |

##### Ingredients

|                  |  |
|------------------|--|
| Toxicity to fish | : Sodium Carbonate(soda)<br>96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l |
|------------------|--|

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### OPX UNIT DOSE DETERGENT

zeolite  
96 h LC50 Fish: 1,800 mg/l

alcohol ethoxylate  
96 h LC50 Fish: 1.5 mg/l

sodium metasilicate  
96 h LC50 Fish: 210 mg/l

#### Ingredients

Toxicity to daphnia and other aquatic invertebrates : Sodium Carbonate(soda)  
48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l

Sodium carbonate peroxyhydrate  
48 h EC50 Daphnia: 4.9 mg/l

#### Persistence and degradability

No data available

#### 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 : The product should not be allowed to enter drains, water courses or the soil. 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 re-use 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



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### OPX UNIT DOSE DETERGENT

#### Sea transport (IMDG/IMO)

Not dangerous goods

#### Product AT USE DILUTION

Not intended for transport.

### SECTION 15. REGULATORY INFORMATION

#### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### 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 Health Hazard

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

**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.

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

##### United States TSCA Inventory :

On TSCA Inventory

##### Canadian Domestic Substances List (DSL) :

This product contains one or several components listed in the Canadian NDSL.

##### Australia Inventory of Chemical Substances (AICS) :

not determined

##### New Zealand. Inventory of Chemical Substances :

not determined

##### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

##### Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

##### Korea. Korean Existing Chemicals Inventory (KECI) :

not determined

##### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

not determined

# SAFETY DATA SHEET

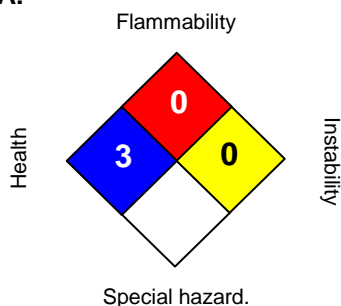
## OPX UNIT DOSE DETERGENT

China. Inventory of Existing Chemical Substances in China (IECSC) :  
not determined

### SECTION 16. OTHER INFORMATION

#### Product AS SOLD

##### NFPA:



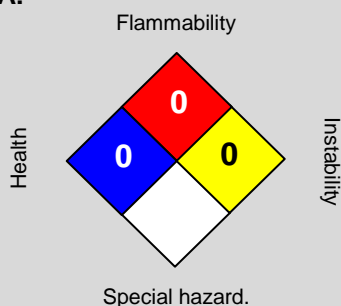
##### HMIS III:

|                 |   |
|-----------------|---|
| HEALTH          | 3 |
| FLAMMABILITY    | 0 |
| PHYSICAL HAZARD | 0 |

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

#### Product AT USE DILUTION

##### NFPA:



##### HMIS III:

|                 |   |
|-----------------|---|
| HEALTH          | 0 |
| FLAMMABILITY    | 0 |
| PHYSICAL HAZARD | 0 |

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

Issuing date : 07/06/2015  
Version : 1.0  
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.