SAFETY DATA SHEET
ECONO-SOUR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ECONO-SOUR
Other means of identification : not applicable
Recommended use : Laundry product
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : Product is sold ready to use.
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 : 06/12/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Acute toxicity (Oral) : Category 3
Acute toxicity (Inhalation) : Category 3
Acute toxicity (Dermal) : Category 3
Eye irritation : Category 2B

GHS Label element
Hazard pictograms : 

Signal Word : Danger
Hazard Statements : Toxic if swallowed, in contact with skin or if inhaled. Causes eye irritation.
Precautionary Statements : Prevention:
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin 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. Response:
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician. Rinse mouth. If eye irritation persists: Get medical advice/ attention. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Storage:
Store in a well-ventilated place. Keep container tightly closed. Store
locked up.

**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards:** None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Pure substance/mixture:** Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
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<tbody>
<tr>
<td>Fluorsurfactants</td>
<td>16893-85-9</td>
<td>60 - 100</td>
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### SECTION 4. FIRST AID MEASURES

**In case of eye contact:** Rinse with plenty of water. Get medical attention immediately.

**In case of skin contact:** Rinse with plenty of water. Apply calcium gluconate gel, if available, or milk of magnesia to affected area.

**If swallowed:** Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. If available, take several calcium antacid tablets (eg Tums) or several tablespoons of milk of magnesia.

**If inhaled:** Get medical attention immediately.

**Protection of first-aiders:** No special precautions are necessary for first aid responders.

**Notes to physician:** Treat symptomatically.

*See toxicological information (Section 11)*

### SECTION 5. FIRE-FIGHTING MEASURES

**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
SAFETY DATA SHEET

ECONO-SOUR

Personal precautions, protective equipment and emergency procedures: 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: 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

Advice on safe handling: 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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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

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: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder
Color: blue
Odor: odorless
pH: 3.5, 1 %
Flash point: not applicable. Does not sustain combustion.
Odor Threshold: no data available
Melting point/freezing point: no data available
Initial boiling point and boiling range: > 100 °C
Evaporation rate: no data available
Flammability (solid, gas): no data available
Upper explosion limit: no data available
Lower explosion limit: no data available
Vapour pressure: no data available
Relative vapor density: no data available
Relative density: no data available
Water solubility: slightly 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

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
Hazardous decomposition products: Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Eyes: Causes eye irritation.
Skin: Toxic in contact with skin. Chronic low level exposure may result in mottling of teeth, joint stiffness, and weakening of bones
Ingestion: Toxic if swallowed. Chronic low level exposure may result in mottling of teeth, joint stiffness, and weakening of bones (osteosclerosis).

Inhalation: May be harmful if inhaled.

Experience with human exposure

Eye contact: Redness, Irritation

Skin contact: No information available.

Ingestion: No information available.

Inhalation: No information available.

Toxicity

Acute oral toxicity: Acute toxicity estimate: 100.03 mg/kg

Acute inhalation toxicity: 4 h Acute toxicity estimate: 0.5 mg/l

Acute dermal toxicity: Acute toxicity estimate: 300.08 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Mild eye irritation

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

SECTION 12. ECOLOGICAL INFORMATION

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 algae: Fluorsurfactants

72 h EC50: 14.9 mg/l
SAFETY DATA SHEET

ECONO-SOUR

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

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.

SECTION 14. TRANSPORT INFORMATION

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)
UN number: 2674
Description of the goods: Sodium fluorosilicate
Class: 6.1
Packing group: III
Environmentally hazardous: no

Sea transport (IMDG/IMO)
UN number: 2674
Description of the goods: SODIUM FLUOROSILICATE
Class: 6.1
Packing group: III
Marine pollutant: no

SECTION 15. REGULATORY INFORMATION

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:

1907/2006 (EU): not determined

Switzerland. New notified substances and declared preparations: not determined

United States TSCA Inventory: On TSCA 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

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

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

SECTION 16. OTHER INFORMATION
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.