SAFETY DATA SHEET
TURBOLIZER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TURBOLIZER

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

Issuing date : 03/17/2016

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4
Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Harmful if swallowed.
Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. Immediately call a POISON CENTER/doctor. 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. Wash contaminated clothing before reuse.
Storage:
Store locked up.
Disposal:
Safety Data Sheet

Turbolizer

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

Other hazards: Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section 3. Composition/Information on Ingredients

Pure substance/mixture: Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorosilicic acid</td>
<td>16961-83-4</td>
<td>10 - 30</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

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. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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.

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 firefighting: 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.
SAFETY DATA SHEET

TURBOLIZER

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

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: 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: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.


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: 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: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
SAFETY DATA SHEET

TURBOLIZER

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid  
Color: light yellow  
Odor: pungent  
P pH: 1.25, 100 %  
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  
Vapor pressure: No data available  
Relative vapor density: No data available  
Relative density: 1.225  
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

Chemical stability: Stable under normal conditions.  
Possibility of hazardous reactions: Do not mix with bleach or other chlorinated products – will cause chlorine gas.  
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 serious eye damage.
Skin: Causes severe skin burns.
Ingestion: Harmful if swallowed. Causes digestive tract burns.
Inhalation: May cause nose, throat, and lung irritation.
Chronic Exposure: Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact: Redness, Pain, Corrosion
Skin contact: Redness, Pain, Corrosion
Ingestion: Corrosion, Abdominal pain
Inhalation: Respiratory irritation, Cough

Toxicity

Product
- Acute oral toxicity: Acute toxicity estimate: 1,720 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
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Environmental Effects : This product has no known ecotoxicological effects.

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 : fluorosilicic acid
   96 h LC50 Fish: 50 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

Disposal methods : 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.


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 : 1778
Description of the goods : Fluorosilicic acid
Class : 8
Packing group : II
Environmentally hazardous : no
Sea transport (IMDG/IMO)
UN number : 1778
Description of the goods : FLUOROSILICIC ACID
Class : 8
Packing group : II
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:
Switzerland. New notified substances and declared preparations : On the inventory, or in compliance with the inventory
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) :
SAFETY DATA SHEET
TURBOLIZER

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

NFPA: Health 3 Flammability 0 Instability 0

HMIS III:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>3</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>0</td>
</tr>
</tbody>
</table>

Issuing date: 03/17/2016
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.