SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : COSA CIP 92
Other means of identification : Not applicable
Recommended use : Cleaning product
Restrictions on use : Reserved for industrial and professional use.
Product dilution information : 1.0 % - 3.0 %
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 : 04/10/2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD
Skin corrosion : Category 1A
Serious eye damage : Category 1

Product AT USE DILUTION
Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS Label element

Product AS SOLD
Hazard pictograms : ⚠️ ⚠️

Signal Word : Danger
Hazard Statements : Causes severe skin burns and eye damage.
Precautionary Statements : Prevention:
Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.
Storage:
SAFETY DATA SHEET

COSA CIP 92

Store locked up.

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

Product AT USE DILUTION

Hazard pictograms:

Signal Word: Danger

Hazard Statements: Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention:
Wash skin thoroughly after handling. Wear protective gloves/
protective clothing/ eye protection/ face protection.

Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN
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Rinse skin with water/ shower. 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.
Immediately call a POISON CENTER or doctor/ physician. Wash
contaminated clothing before reuse.

Storage:
Store locked up.

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

Other hazards:
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture: Mixture

Chemical Name | CAS-No. | Concentration (%)
---------------|---------|------------------
Alcohol ethoxylate | 68439-51-0 | 10 - 30
octanoic acid, sodium salt | 1984-06-1 | 5 - 10
triethanolamine | 102-71-6 | 5 - 10
amines, coco alkyl, ethoxylated | 61791-14-8 | 5 - 10
sodium hydroxide | 1310-73-2 | 1 - 5

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. Wash clothing before reuse. Thoroughly clean
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.

### Product AT USE DILUTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>In case of eye contact</td>
<td>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.</td>
</tr>
<tr>
<td>In case of skin contact</td>
<td>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.</td>
</tr>
<tr>
<td>If swallowed</td>
<td>Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.</td>
</tr>
<tr>
<td>If inhaled</td>
<td>Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

### 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: 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.

Product AT USE DILUTION
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.

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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. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.


Storage temperature: -25 °C to 50 °C

Product AT USE DILUTION
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.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
SAFETY DATA SHEET

COSA CIP 92

Product AS SOLD

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Form of exposure</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>triethanolamine</td>
<td>102-71-6</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>sodium hydroxide</td>
<td>1310-73-2</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>OSHA Z1</td>
</tr>
</tbody>
</table>

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.

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.

Product AT USE DILUTION

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

COSA CIP 92

Color : amber  
Odor : slight 

pH : 13.9, 100 %  
Flash point : Not applicable 

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 : 1.08 

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.

Conditions to avoid : None known.

Incompatible materials : Acids 
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

**Product AS SOLD**

**Eyes**
- Causes serious eye damage.

**Skin**
- Causes severe skin burns.

**Ingestion**
- Causes digestive tract burns.

**Inhalation**
- May cause nose, throat, and lung irritation.

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

**Product AT USE DILUTION**

**Eyes**
- Causes serious eye damage.

**Skin**
- Causes severe skin burns.

**Ingestion**
- 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

**Product AS SOLD**

**Eye contact**
- Redness, Pain, Corrosion

**Skin contact**
- Redness, Pain, Corrosion

**Ingestion**
- Corrosion, Abdominal pain

**Inhalation**
- Respiratory irritation, Cough

**Product AT USE DILUTION**

**Eye contact**
- Redness, Pain, Corrosion

**Skin contact**
- Redness, Pain, Corrosion

**Ingestion**
- Corrosion, Abdominal pain

**Inhalation**
- Respiratory irritation, Cough

Toxicity

**Product AS SOLD**

**Acute oral toxicity**
- Acute toxicity estimate: > 5,000 mg/kg

**Acute inhalation toxicity**
- 4 h Acute toxicity estimate: > 40 mg/l

**Acute dermal toxicity**
- Acute toxicity estimate: > 5,000 mg/kg

**Skin corrosion/irritation**
- No data available
### SAFETY DATA SHEET
### COSA CIP 92

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Reproductive effects</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

**Ecotoxicity**

Environmental Effects: Harmful to aquatic life with long lasting 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: 
  - Alcohol ethoxylate  
  - Octanoic acid, sodium salt  
  - Triethanolamine

- Toxicity to daphnia and other aquatic invertebrates: 
  - Triethanolamine

- Toxicity to algae: 
  - Triethanolamine

**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

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th>Disposal methods</th>
<th>Disposal considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
<td>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.</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Product AT USE DILUTION</th>
<th>Disposal methods</th>
<th>Disposal considerations</th>
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</tr>
</tbody>
</table>

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)
UN number : 1824
Description of the goods : Sodium hydroxide solution
Class : 8
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)
UN number : 1824
Description of the goods : SODIUM HYDROXIDE SOLUTION
Class : 8
Packing group : II
SAFETY DATA SHEET

COSA CIP 92

Marine pollutant : no

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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium hydroxide</td>
<td>1310-73-2</td>
<td>1000</td>
<td>23641</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 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) : 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 : not determined

Japan. ISHL - Inventory of Chemical Substances (METI) : not determined

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

Product AS SOLD

NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS III:

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

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

Product AT USE DILUTION

NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS III:

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

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

Issuing date : 04/10/2015
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.