# SAFETY DATA SHEET

## SMARTPOWER RINSE ADDITIVE HEAVY DUTY

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>SMARTPOWER RINSE ADDITIVE HEAVY DUTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Rinse additive</td>
</tr>
<tr>
<td>Restrictions on use</td>
<td>Reserved for industrial and professional use.</td>
</tr>
<tr>
<td>Product dilution information</td>
<td>0.0018 % - 0.0044 %</td>
</tr>
<tr>
<td>Company</td>
<td>Ecolab Inc.</td>
</tr>
<tr>
<td></td>
<td>1 Ecolab Place</td>
</tr>
<tr>
<td></td>
<td>St. Paul, Minnesota USA 55102</td>
</tr>
<tr>
<td></td>
<td>1-800-352-5326</td>
</tr>
<tr>
<td>Emergency health information</td>
<td>1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)</td>
</tr>
<tr>
<td>Issuing date</td>
<td>10/31/2019</td>
</tr>
</tbody>
</table>

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

**Product AS SOLD**

- **Eye irritation**: Category 2A

#### Product AT USE DILUTION

- Not a hazardous substance or mixture.

#### GHS label elements

**Product AS SOLD**

- **Hazard pictograms**: ![Exclamation mark]

- **Signal Word**: Warning

- **Hazard Statements**: Causes serious eye irritation.

- **Precautionary Statements**:
  - **Prevention**: Wash skin thoroughly after handling.
  - **Response**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Product AT USE DILUTION

- **Precautionary Statements**:
  - **Prevention**: Wash hands thoroughly after handling.
  - **Response**: Get medical advice/attention if you feel unwell.
  - **Storage**: Store in accordance with local regulations.
SAFETY DATA SHEET
SMARTPOWER RINSE ADDITIVE HEAVY DUTY

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

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 Xylenesulfonate</td>
<td>1300-72-7</td>
<td>60 - 100</td>
</tr>
<tr>
<td>citric acid</td>
<td>77-92-9</td>
<td>5 - 10</td>
</tr>
<tr>
<td>alcohols, c13-15-branched and linear, butoxylated ethoxylated</td>
<td>111905-53-4</td>
<td>1 - 5</td>
</tr>
<tr>
<td>oxirane, methyl-, polymer with oxirane</td>
<td>9003-11-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>tetrasodium (1-hydroxyethylidene)bisphosphonate</td>
<td>3794-83-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>alcohols, c10-16, ethoxylated</td>
<td>68002-97-1</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: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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.
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
SAFETY DATA SHEET

SMARTPOWER RINSE ADDITIVE HEAVY DUTY

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
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 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

Product AS SOLD
Advice on safe handling : Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

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

Storage temperature : 0 °C to 40 °C
SAFETY DATA SHEET

SMARTPOWER RINSE ADDITIVE HEAVY DUTY

Product AT USE DILUTION
Advice on safe handling : Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). 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
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 : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

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.

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>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Extruded solid.</td>
</tr>
<tr>
<td>Color</td>
<td>clear, dark green</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>pH</td>
<td>2.5 - 4.0, (1 %)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
SMARTPOWER RINSE ADDITIVE HEAVY DUTY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.0 - 1.2</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing.</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

**Product AS SOLD**

| Reactivity | No dangerous reaction known under conditions of normal use. |
| 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 | None known. |
| Hazardous decomposition products | Decomposition products may include the following materials: Carbon oxides, Sulfur oxides, Oxides of phosphorus |

SECTION 11. TOXICOLOGICAL INFORMATION

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

**Product AS SOLD**

| Eyes | Causes serious eye irritation. |
### 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.

### 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, Irritation

##### Skin contact
- No symptoms known or expected.

##### 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.

### Toxicity

#### Product AS SOLD

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

##### Acute inhalation toxicity
- No data available

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

##### Skin corrosion/irritation
- No data available

##### Serious eye damage/eye irritation
- No data available

##### Respiratory or skin sensitization
- Contains an ingredient that can cause asthmatic-like reactions in sulfite-sensitive individuals.

##### Carcinogenicity
- No data available

##### Reproductive effects
- No data available

##### Germ cell mutagenicity
- No data available
SAFETY DATA SHEET
SMARTPOWER RINSE ADDITIVE HEAVY DUTY

Teratogenicity : No data available
STOT-single exposure : No data available
STOT-repeated exposure : No data available
Aspiration toxicity : No data available

Components
Acute inhalation toxicity : oxirane, methyl-, polymer with oxirane
4 h LD50 Rat: 1 mg/l
Test atmosphere: dust/mist

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

Components
Toxicity to fish : citric acid
96 h LC50 Fish: > 100 mg/l

alcohols, c13-15-branched and linear, butoxylated ethoxylated
96 h LC50 Fish: 5 mg/l

oxirane, methyl-, polymer with oxirane
96 h LC50 Fish: > 100 mg/l

Components
Toxicity to daphnia and other aquatic invertebrates : tetrasodium (1-hydroxyethylidene)bisphosphonate
48 h EC50: 167 mg/l

Components
Toxicity to algae : Sodium Xylenesulfonate
96 h EC50: 230 mg/l

Persistence and degradability
Product AS SOLD
Poorly biodegradable

Product AT USE DILUTION
Poorly biodegradable

Bioaccumulative potential
No data available

Mobility in soil
No data available
SAFETY DATA SHEET

SMARTPOWER RINSE ADDITIVE HEAVY DUTY

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 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

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
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 : 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 Xylenesulfonate</td>
<td>1300-72-7</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>citric acid</td>
<td>77-92-9</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Alcohol ethoxylate</td>
<td>68439-51-0</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Sodium Polyacrylate</td>
<td>9003-04-7</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>alcohols, c13-15-branched and linear,</td>
<td>111905-53-4</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>butoxylated ethoxylated oxirane, methyl-</td>
<td>9003-11-6</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>tetrasodium (1-hydroxyethylidene)bisphosphonate</td>
<td>3794-83-0</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>alcohols, c10-16, ethoxylated water</td>
<td>68002-97-1</td>
<td>Cleaning Agent</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Colorant</td>
<td>Withheld</td>
<td>Dye</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**
All substances listed as active on the 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**
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory**
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

**Taiwan Chemical Substance Inventory (TCSI)**
not determined

**SECTION 16. OTHER INFORMATION**
SAFETY DATA SHEET

SMARTPOWER RINSE ADDITIVE HEAVY DUTY

Product AS SOLD

NFPA:

HMIS III:

Flammability 0
Health 2
Instability 0

Special hazard

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

Product AT USE DILUTION

NFPA:

HMIS III:

Flammability 0
Health 0
Instability 0

Special hazard

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

Issuing date : 10/31/2019
Version : 1.3
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 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.