SAFETY DATA SHEET

Soil-Off II

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Soil-Off II

Other means of identification: Not applicable

Recommended use: Cleaning product

Restrictions on use: Reserved for industrial and professional use.

Product dilution information: 1.56 % - 7.81 %

Company: Ecolab Inc.
1 Ecolab Place
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: 07/24/2019

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 elements

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

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 (%)
--- | --- | ---
poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy-2-butoxyethanol | 9043-30-5 | 5 - 10
trisodium phosphate | 111-76-2, 7601-54-9 | 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
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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.

Product AT USE DILUTION

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.

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
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.
# SAFETY DATA SHEET

## Soil-Off II

### 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.

**Environmental precautions**

Do not allow contact with soil, surface or ground water.

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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. 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 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. 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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
### Product AS SOLD

**Ingredients with workplace control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Form of exposure</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>TWA</td>
<td>20 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>24 mg/m³</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>trisodium phosphate</td>
<td>7601-54-9</td>
<td>STEL</td>
<td>5 mg/m³</td>
<td>AIHA WEEL</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.
# SAFETY DATA SHEET

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<table>
<thead>
<tr>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear, blue</td>
</tr>
<tr>
<td>Odor</td>
<td>solvent</td>
</tr>
<tr>
<td>pH</td>
<td>11.5 - 12.5, (100 %)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
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<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
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<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</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>0.99 - 1.03</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>
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</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>No data available</td>
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<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 : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : Acids

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:

Carbon oxides
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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: 21.15 mg/l
Test atmosphere: dust/mist
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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 : 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

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

Product
Toxicity to fish : No data available
Toxicity to daphnia and other aquatic invertebrates : 48 h EC50 Daphnia magna (Water flea): > 120 mg/l
Toxicity to algae : No data available

Components
Toxicity to fish : poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy-96 h LC50 Fish: 0.25 mg/l
2-butoxyethanol
96 h LC50: 1,474 mg/l
trisodium phosphate
96 h LC50 Fish: 120 mg/l

Components
Toxicity to algae : 2-butoxyethanol
72 h EC50: 911 mg/l

Persistence and degradability
Product AS SOLD
Readily biodegradable.

Product AT USE DILUTION
Poorly biodegradable

Bioaccumulative potential
No data available
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Mobility in soil
No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD
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.


Product AT USE DILUTION
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.

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.
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SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302
This material does not contain any components with a section 302 EHS TPQ.

SARA 313
The following components are subject to reporting levels established by SARA Title III, Section 313:
2-butoxyethanol 111-76-2 1 - 5 %

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 does not apply to this product.

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:
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):
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION
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Product AS SOLD

NFPA:

Flammability

Health

3

0

Instability

Special hazard.

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:

Flammability

Health

3

0

Instability

Special hazard.

HMIS III:

HEALTH 3

FLAMMABILITY 0

PHYSICAL HAZARD 0

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

Issuing date : 07/24/2019
Version : 1.5
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.