

Material Safety Data Sheet

Soil-Off II



1. Product and company identification

Trade name of product : Soil-Off II
Product use : Cleaning product

Product dilution information : 2 - 10 oz/gal or 15.6 - 78.1 mL/L

Supplier's information : Ecolab Food and Beverage
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326

Code : 908365-01

Date of issue : 22-June-2010

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

2. Hazards identification

Product AS SOLD
Physical state : Liquid.
Emergency overview : CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Product AS SOLD
Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Moderately irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Product AT USE DILUTION

Liquid.
CAUTION !

No specific hazard.

No specific hazard.

Product AT USE DILUTION

No known significant effects or critical hazards.
No known significant effects or critical hazards.
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No known significant effects or critical hazards.

3. Composition/information on ingredients

Product AS SOLD

| Name | CAS number | % by weight |
|---|------------|-------------|
| poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy-BUTOXYETHANOL | 9043-30-5 | 5- 10 |
| TRISODIUM PHOSPHATE | 111-76-2 | 1 - 5 |
| | 7601-54-9 | 0.5 - 1.5 |

3. Composition/information on ingredients

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First-aid measures

Product AS SOLD

- Eye contact** : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
- Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : If inhaled, remove to fresh air.
- Ingestion** : Get medical attention if symptoms occur.

Product AT USE DILUTION

- No known effect after eye contact. Rinse with water for a few minutes.
- No known effect after skin contact. Rinse with water for a few minutes.
- No special measures required. Treat symptomatically.
Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD

- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
phosphorus oxides
metal oxide/oxides
- Special remarks on fire hazards** : Not available.
- Special remarks on explosion hazards** : Not available.
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dyke area of fire to prevent runoff.
In a fire or if heated, a pressure increase will occur and the container may burst.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Product AS SOLD

- Personal precautions** : Use personal protective equipment as required.
- Environmental precautions** : Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.
- Methods for cleaning up** : Use a water rinse for final clean-up.

Product AT USE DILUTION

- Use personal protective equipment as required.
- Avoid contact of large amounts of spilt material and runoff with soil and surface waterways.
- Use a water rinse for final clean-up.

7. Handling and storage

Product AS SOLD

Handling : Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage : Keep out of reach of children. Store in a closed container.
Do not store below the following temperature: -30°C

Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children.

8. Exposure controls/personal protection

Product AS SOLD

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Eyes : Safety eyewear should be used when there is a likelihood of exposure.

Hands : Use chemical-resistant, impervious gloves.

Skin : No protective equipment is needed under normal use conditions.

Respiratory : Avoid breathing vapours, spray or mists.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

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No protective equipment is needed under normal use conditions.

No special protection is required.

| Occupational exposure limits | | TWA (8 hours) | | | STEL (15 mins) | | | Ceiling | | | |
|------------------------------|-----------------|---------------|-------------------|-------|----------------|-------------------|-------|---------|-------------------|-------|-----------|
| Ingredient | List name | ppm | mg/m ³ | Other | ppm | mg/m ³ | Other | ppm | mg/m ³ | Other | Notations |
| 2-butoxyethanol | US ACGIH 1/2009 | 20 | - | - | - | - | - | - | - | - | |
| | AB 4/2009 | 20 | 97 | - | - | - | - | - | - | - | [3] |
| | BC 10/2009 | 20 | - | - | - | - | - | - | - | - | |
| | ON 8/2008 | 20 | - | - | - | - | - | - | - | - | [1] |
| | QC 6/2008 | 20 | 97 | - | - | - | - | - | - | - | |
| sodium phosphate, tribasic | US AIHA 1/2009 | - | - | - | - | 5 | - | - | - | - | |

[1]Absorbed through skin. [3]Skin sensitisation

9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid.

Flash point : > 100°C
Product does not support combustion.

Colour : Blue.

Odour : Sweetish.

pH : 11.5 to 12.5 [Conc. (% w/w): 100%]

Boiling/condensation point : >100°C (>212°F)

Melting/freezing point : Not available.

Relative density : 0.96 to 1.06

Vapour pressure : Not available.

Vapour density : Not available.

Odour threshold : Not available.

Evaporation rate : Not available.

Product AT USE DILUTION

Liquid.
> 100°C

Pale colour. [Light]

Faint odour.
9.2 to 10.3

9. Physical and chemical properties

- Viscosity** : Not available.
Dispersibility properties : Not available.
Solubility : Easily soluble in the following materials: cold water and hot water.
LogK_{ow} : Not available.

10. Stability and reactivity

Product AS SOLD

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability : Not available.
Reactivity : Slightly reactive or incompatible with the following materials: acids.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerisation : Under normal conditions of storage and use, hazardous polymerisation will not occur.

11. Toxicological information

Potential acute health effects

- Product AS SOLD**
- Eyes** : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Moderately irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

Product AT USE DILUTION

No known significant effects or critical hazards.
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Product AS SOLD

Potential chronic health effects

- Carcinogenic effects** : No known significant effects or critical hazards.
Mutagenic effects : No known significant effects or critical hazards.
Teratogenic effects : No known significant effects or critical hazards.
Reproductive effects : No known significant effects or critical hazards.
Sensitization to Product : No known significant effects or critical hazards.
Synergistic products (toxicologically) : Not available.

Toxicity data

| Product/ingredient name | Test | Route | Result | Species |
|----------------------------|------|------------|------------------------|---------|
| 2-butoxyethanol | LD50 | Oral | 320 mg/kg | Rabbit |
| | LD50 | Oral | 250 mg/kg | Rat |
| | LC50 | Inhalation | 2900 mg/m ³ | Rat |
| | LC50 | Inhalation | 450 ppm | Rat |
| sodium phosphate, tribasic | LD50 | Oral | >2000 mg/kg | Rat |

Other adverse effects

- Target organs** : Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, central nervous system (CNS).

12. Ecological information

Ecotoxicity : Not reported

13. Disposal considerations

Product AS SOLD

Waste disposal : Diluted product can be flushed to sanitary sewer.
Discard empty container in trash.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Product AS SOLD

IMO/IMDG Classification : Not regulated.

See shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

WHMIS : Class D-2B: Material causing other toxic effects (Toxic).

Product AT USE DILUTION

Not hazardous by WHMIS criteria.

Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

| | | |
|------------------|---|---|
| Health | * | 1 |
| Flammability | | 0 |
| Physical hazards | | 0 |
| | | |

National Fire Protection Association (U.S.A.) :



Product AT USE DILUTION

| | | |
|------------------|--|---|
| Health | | 0 |
| Flammability | | 0 |
| Physical hazards | | 0 |
| | | |



Date of issue : 22-June-2010

Date of previous issue : 21 April 2010

16. Other information

Responsible name : Regulatory Affairs
1-800-352-5326

☑ Indicates information that has changed from previously issued version.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**