

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Open Nature Laundry Detergent Concentrated

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laundry Detergent

1.3. Supplier

Greenology Products, LLC
7020 Cynrow Blvd
Raleigh, 27615
US
info@greenshieldorganic.com

1.4. Emergency telephone number

Emergency number : 919-518-0908

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation, Category 2

Causes serious eye irritation.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

Causes serious eye irritation.

Precautionary statements (GHS US) :

Wash hands, forearms and face thoroughly after handling.

Wear protective gloves.

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 or attention.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % |
|--|----------------------|---------|
| Sodium laureth sulfate | CAS-No.: 68891-38-3 | 7 – 10 |
| 1,2,3-Propanetriol | CAS-No.: 56-81-5 | 1.5 – 5 |
| D-Glucopyranose, oligomeric, C10-16-alkyl glycosides | CAS-No.: 110615-47-9 | 1.5 – 5 |

Comments : US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Medical personnel should be made aware of substance(s) involved and take measures for self protection. Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes. Keep out of the reach of children.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash skin with plenty of water. Obtain medical attention if irritation persists.

First-aid measures after 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 and attention.

First-aid measures after ingestion : Do not induce vomiting. If vomiting occurs have person lean forward. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Prolonged inhalation may be harmful.

Symptoms/effects after skin contact : Prolonged or repeated contact may dry skin and cause irritation.

Symptoms/effects after eye contact : Direct contact with eyes may cause temporary irritation. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Symptoms/effects after ingestion : May cause stomach distress, nausea or vomiting.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Treat for surrounding material.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard : During fire, gases hazardous to health may be formed. In case of fire or explosion do not breathe fumes.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : May include and are not limited to: oxides of carbon.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. In the event of a significant spillage : Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop leaks if it can be done without personal risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Clean contaminated surfaces with an excess of water. Minimise generation of dust.

Other information : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not taste or swallow. Ensure good ventilation of the work station. Wear personal protective equipment. Handle and open container with care.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Store tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|---|--|
| Open Nature Laundry Detergent Concentrated | |
| No additional information available | |
| 1,2,3-Propanetriol (56-81-5) | |
| USA - OSHA - Occupational Exposure Limits | |
| OSHA PEL TWA [1] | 15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction) |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

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| |
|---|
| D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (110615-47-9) |
| No additional information available |
| Sodium laureth sulfate (68891-38-3) |
| No additional information available |

8.2. Appropriate engineering controls

Appropriate engineering controls : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

| |
|--|
| Hand protection: |
| Wear protective gloves. Confirm with a reputable supplier first. |
| Eye protection: |
| Wear eye protection. Wear safety glasses with side shields (or goggles). |
| Skin and body protection: |
| Wear suitable protective clothing. As required by employer code. |
| Respiratory protection: |
| Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Colour | : Colourless |
| Odour | : fragrant |
| Odour threshold | : No data available |
| pH | : 7.5 – 8.5 |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20°C | : No data available |
| Relative density | : 1.05 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 300 – 800 cP |
| Explosive limits | : No data available |

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Explosive properties : Not explosive.
Oxidising properties : Not oxidising.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat and direct sunlight. Do not mix with other chemicals.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Open Nature Laundry Detergent Concentrated | |
|--|--|
| Unknown acute toxicity (GHS US) | Not applicable. |
| 1,2,3-Propanetriol (56-81-5) | |
| LD50 oral rat | 12600 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 10 g/kg (Source: NLM_CIP) |
| LD50 dermal | 56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 2.75 mg/l/4h |
| LC50 Inhalation - Rat (Vapours) | 5.85 mg/l/4h |
| ATE US (oral) | 12600 mg/kg bodyweight |
| ATE US (dermal) | 56750 mg/kg bodyweight |
| ATE US (vapours) | 5.85 mg/l/4h |
| D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (110615-47-9) | |
| LD50 oral rat | > 5000 mg/kg (Source: ECHA) |
| LD50 dermal rabbit | > 2000 mg/kg (Source: ECHA) |

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| Sodium laureth sulfate (68891-38-3) | |
|--|--|
| LD50 oral rat | 4100 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg (Source: ECHA_API) |
| ATE US (oral) | 4100 mg/kg bodyweight |

| | |
|-----------------------------------|----------------------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

| D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (110615-47-9) | |
|---|--|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

| Sodium laureth sulfate (68891-38-3) | |
|--|---|
| LOAEL (oral, rat, 90 days) | 25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | > 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

| | |
|-------------------------------------|--|
| Aspiration hazard | : Not classified |
| Likely routes of exposure | : Skin and eyes contact. Ingestion. Inhalation. |
| Symptoms/effects after inhalation | : Prolonged inhalation may be harmful. |
| Symptoms/effects after skin contact | : Prolonged or repeated contact may dry skin and cause irritation. |
| Symptoms/effects after eye contact | : Direct contact with eyes may cause temporary irritation. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |
| Symptoms/effects after ingestion | : May cause stomach distress, nausea or vomiting. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : See below for route-specific details.

| 1,2,3-Propanetriol (56-81-5) | |
|-------------------------------------|--|
| LC50 - Fish [1] | 51 – 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA) |
| EC50 - Crustacea [1] | > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |

| D-Glucopyranose, oligomeric, C10-16-alkyl glycosides (110615-47-9) | |
|---|--|
| LC50 - Fish [1] | 2.95 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 7 mg/l Test organisms (species): Daphnia magna |
| LC50 - Fish [2] | 5.9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [2] | 14 mg/l Test organisms (species): Daphnia magna |

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| Sodium laureth sulfate (68891-38-3) | |
|--|---|
| LC50 - Fish [1] | 7.1 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Flow-through system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 7.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 72h - Algae [1] | 27.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| ErC50 algae | 28 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP) |
| NOEC (chronic) | 0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 0.14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d' |

12.2. Persistence and degradability

| 1,2,3-Propanetriol (56-81-5) | |
|--|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| Sodium laureth sulfate (68891-38-3) | |
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| 1,2,3-Propanetriol (56-81-5) | |
|---|--|
| BCF - Fish [1] | (no bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | -1.75 (at 25 °C (at pH 7.4) |
| Bioaccumulative potential | Not bioaccumulative. |
| Sodium laureth sulfate (68891-38-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.3 (at 23 °C (at pH 6.1) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

| 1,2,3-Propanetriol (56-81-5) | |
|--|--|
| Surface tension | 63 mN/m (20 °C, 1000 g/l) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| Sodium laureth sulfate (68891-38-3) | |
| Surface tension | 33 mN/m (25 °C, 0.07 %, BS EN 14370:2004: Surface tension) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.34 (log Koc, QSAR) |
| Ecology - soil | Highly mobile in soil. |

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|--|
| Waste treatment methods | : Dispose of the material collected according to regulations. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling, disposal or collection. |

SECTION 14: Transport information

| | DOT |
|---|---------------|
| 14.1. UN number | Not regulated |
| 14.2. Proper Shipping Name | Not regulated |
| 14.3. Transport hazard class(es) | Not regulated |
| 14.4. Packing group | Not regulated |
| 14.5. Environmental hazards | Not regulated |
| No supplementary information available | |

14.6. Special precautions for user

DOT

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

| | | |
|----------------------------|-------------------|----------|
| Sodium citrate (dihydrate) | CAS-No. 6132-04-3 | 1.5 – 5% |
|----------------------------|-------------------|----------|

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Other information : For an updated SDS, please contact the supplier or manufacturer listed on the first page of the document.

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