

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/05/2019

Reviewed on 08/05/2019

**1 Identification**

· **Product Identifier**

· **Trade Name: Natural Dish Soap**

· **Relevant identified uses of the substance or mixture and uses advised against:** Household Product

· **Product Description:** Liquid cleaning agent for dishes

· **Application of the substance / the mixture:**

This product is packaged for retail sale, and intended for consumer use. The U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) does not apply to "consumer products" as defined by the U.S. Consumer Product Safety Act and Federal Hazardous Substances Act. This Safety Data Sheet (SDS) is provided to assist with proper use and safe handling of this product. Other applicable consumer product use and safety information can be found on the product label.

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**

Greenology Products, Inc.  
8305 Falls of the Neuse Road, Suite 206  
Raleigh, NC 27615  
Phone: 919-518-0908  
Fax: 919-845-0084  
<http://www.greenshieldorganic.com/>

· **Emergency telephone number:** ChemTel 24 Hours 800-255-3924

**2 Hazard(s) Identification**

· **Classification of the substance or mixture:**



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· **Label elements:**

· **Hazard pictograms:**



· **Signal word:** Warning

· **Hazard-determining components of labeling:**

Benzenesulfonic acid, C10-16-alkyl derivs.

· **Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· **Precautionary statements:**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.

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· **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

14.9 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

**3 Composition/Information on Ingredients**

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

68584-22-5	Benzenesulfonic acid, C10-16-alkyl derivs. ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302
68585-34-2	Sodium Lauryl Ether Sulfate ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2A, H319
1310-73-2	Sodium Hydroxide ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302
2634-33-5	1,2-benzisothiazol-3(2H)-one ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319; Skin Sens. 1, H317

· **Additional information:**

The percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

**\* 4 First-Aid Measures**

· **Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:** Not expected as a result of exposure to finished product.

· **After skin contact:** If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for at least 15 minutes under running water.

If eye irritation occurs, consult a doctor.

· **After swallowing:**

Do not induce vomiting.

Consume large amounts of water. If symptoms persist, consult a doctor.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

(Contd. on page 3)

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**5 Fire-Fighting Measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

**6 Accidental Release Measures**

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Household Environment: Small spills and leaks may be cleaned up and disposed of in normal household trash.  
Industrial Environment: Material may slippery. Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Avoid releasing large amounts of material to the sewer system. Dispose of the collected material according to regulations.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

1310-73-2	Sodium Hydroxide	0.5 mg/m <sup>3</sup>
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· **PAC-2:**

1310-73-2	Sodium Hydroxide	5 mg/m <sup>3</sup>
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· **PAC-3:**

1310-73-2	Sodium Hydroxide	50 mg/m <sup>3</sup>
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**7 Handling and Storage**

- **Handling**
- **Precautions for safe handling:**  
Household Environment: Please follow the product label  
Industrial Setting: Wear protective equipment as detailed in section 8
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
KEEP OUT OF REACH OF CHILDREN AND PETS.  
Store at room temperature away from direct sunlight.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

**\* 8 Exposure Controls/Personal Protection**

- **Additional information about design of technical systems:** No further data; see section 7.

(Contd. on page 4)

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/05/2019

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- **Control parameters:**
- **Components with occupational exposure limits:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

<b>1310-73-2 Sodium Hydroxide</b>	
PEL	Long-term value: 2 mg/m <sup>3</sup>
REL	Ceiling limit value: 2 mg/m <sup>3</sup>
TLV	Ceiling limit value: 2 mg/m <sup>3</sup>

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Tightly sealed goggles recommended in a manufacturing setting only.

**\* 9 Physical and Chemical Properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Liquid
  - Color:** Clear, yellow
  - Odor:** Various
  - Odor threshold:** Not determined.
- **pH-value @ 20 °C (68 °F):** 6-7
- **Change in condition**
  - Melting point/Melting range:** Not determined.
  - Boiling point/Boiling range:** ≥100 °C (≥212 °F)
- **Flash point:** None
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not determined.

(Contd. on page 5)

**Safety Data Sheet (SDS)**

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Issue date 08/05/2019

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- Upper:** Not determined.
- **Vapor pressure @ 20 °C (68 °F):** ≤23 hPa (≤17.3 mm Hg)
- **Density:**
  - Relative density:** Not determined.
  - Vapor density:** Not determined.
  - Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
  - Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Other information:** No further relevant information available.

**10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:**  
In a household environment, cleaning products should not be mixed with other household chemicals, unless specifically stated in the use directions.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>1310-73-2 Sodium Hydroxide</b>		
Oral	LD50	2,000 mg/kg (Rat)
<b>2634-33-5 1,2-benzisothiazol-3(2H)-one</b>		
Oral	LD50	1,020 mg/kg (Rat)
Inhalative	LC50/4 h	0.8 mg/l (Trout) (96 hr)

- **Primary irritant effect:**
- **On the skin:**  
Irritating effect  
May cause an allergic skin reaction.
- **On the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Other information (about experimental toxicology):**  
LD50 Acute oral and dermal toxicity values reference published toxicological data.  
The raw material suppliers used by Greenology do not perform testing on animals. Greenology uses alternative, non-animal based methods and published toxicological data to determine the safety classification of our products and their ingredients.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 6)

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Reviewed on 08/05/2019

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Irritant

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**12 Ecological Information**

· **Toxicity:**

· **Aquatic toxicity:**

**68584-22-5 Benzenesulfonic acid, C10-16-alkyl derivs.**

EC50 2-3 mg/l (Daphnia) (48 Hr)

**1310-73-2 Sodium Hydroxide**

EC50 40 mg/l (Daphnia)

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

EC50 4.4 mg/l (Daphnia) (48 hr)

· **Persistence and degradability:** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Generally not hazardous for water.

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:** No further relevant information available.

**13 Disposal Considerations**

· **Waste treatment methods**

· **Recommendation:**

Smaller quantities can be disposed of with household waste.

Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packaging**

· **Recommendation:** Do not reuse bottle to store any other liquids. Please rinse and recycle bottle for disposal.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport Information**

· **UN-Number:**

· **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material

· **UN proper shipping name:**

· **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material

· **Transport hazard class(es):**

· **DOT, ADR/ADN, ADN, IMDG, IATA**

· **Class:** Non-Regulated Material

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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- **Packing group:** Non-Regulated Material
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

<ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b></li> </ul>
All components have the value ACTIVE.

<ul style="list-style-type: none"> <li>· <b>Hazardous Air Pollutants</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>California Proposition 65:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause cancer:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for males:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b></li> </ul>
None of the ingredients are listed.

<ul style="list-style-type: none"> <li>· <b>New Jersey Right-to-Know List:</b></li> </ul>
1310-73-2 Sodium Hydroxide

<ul style="list-style-type: none"> <li>· <b>New Jersey Special Hazardous Substance List:</b></li> </ul>
1310-73-2 Sodium Hydroxide
CO, R1

<ul style="list-style-type: none"> <li>· <b>Pennsylvania Right-to-Know List:</b></li> </ul>
1310-73-2 Sodium Hydroxide

<ul style="list-style-type: none"> <li>· <b>Pennsylvania Special Hazardous Substance List:</b></li> </ul>
1310-73-2 Sodium Hydroxide
E

- **Carcinogenic categories:**
- **EPA (Environmental Protection Agency):**

None of the ingredients are listed.
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- **TLV (Threshold Limit Value established by ACGIH):**
- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.
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· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



· **Signal word:** Warning

· **Hazard-determining components of labeling:**

Benzenesulfonic acid, C10-16-alkyl derivs.

· **Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· **Precautionary statements:**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.

· **National regulations:**

None of the ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other Information**

Consumer Product Label Information

**DIRECTIONS:** Squirt the desired amount into warm, flowing water or directly onto moistened sponge. Not for use in automatic dishwashers.

**CAUTION:** PLEASE KEEP OUT OF REACH OF CHILDREN. EYE IRRITANT. In case of eye contact, flush well with water. In case of ingestion, drink plenty of water and if necessary, contact a physician.

**STORAGE & DISPOSAL:** Store container at room temperature. Do not freeze. When fully used, please place empty bottle into recycling bin or drop off at local recycling facility.

· **Date of last revision/ revision number:** 08/05/2019 / 7

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value



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PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

· **\* Data compared to the previous version altered.**

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