

Safety Data Sheet (SDS)

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

Issue date 08/08/2019

Reviewed on 08/07/2019

* 1 Identification

- *Product Identifier*
- *Trade Name: Natural Liquid Laundry- with Enzymes, All Variants*
- *Relevant identified uses of the substance or mixture and uses advised against:* Household Product
- *Product Description:*
Liquid cleaning agent for clothes or fabrics that can emulsify oils and hold dirt in suspension
- *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 (800) 255-3924
International: +01 (813) 248-0584

2 Hazard(s) Identification

- *Classification of the substance or mixture:*



Skin Sens. 1 H317 May cause an allergic skin reaction.

- *Label elements:*
- *Hazard pictograms:*



- *Signal word:* Warning
- *Hazard-determining components of labeling:*
Sodium Lauryl Sulfate
Proprietary Enzyme
- *Hazard statements:*
H317 May cause an allergic skin reaction.
- *Precautionary statements:*
 - P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P272 Contaminated work clothing must not be allowed out of the workplace.
 - P280 Wear protective gloves.
 - P302+P352 If on skin: Wash with plenty of water.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 - P363 Wash contaminated clothing before reuse.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade Name: Natural Liquid Laundry- with Enzymes, All Variants

• **Unknown acute toxicity:**

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

0 % 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:** Non-Regulated Material

• **Dangerous Components:**

CAS: 151-21-3 RTECS: WT 1050000	Sodium Lauryl Sulfate ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	2-12%
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	2-12%
CAS: 110615-47-9	D-Glucopyranoside, C10-16 alkyl, oligomeric ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Aquatic Acute 2, H401	≤2.5%
	Proprietary Enzyme ⚠ Resp. Sens. 1, H334; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤2.5%
	Proprietary Enzyme ⚠ Resp. Sens. 1, H334	≤2.5%
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≤2.5%

• **Additional information:**

The exact 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:** If symptoms persist, call a physician.

• **After inhalation:** Not expected. Get medical attention immediately if symptoms occur.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

• **After eye contact:**

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

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- *After swallowing:* If swallowed and symptoms occur, 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.

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:

151-21-3	Sodium Lauryl Sulfate	3.9 mg/m ³
56-81-5	Glycerol	45 mg/m ³
144-55-8	Sodium Hydrogencarbonate	13 mg/m ³

• PAC-2:

151-21-3	Sodium Lauryl Sulfate	43 mg/m ³
56-81-5	Glycerol	180 mg/m ³
144-55-8	Sodium Hydrogencarbonate	140 mg/m ³

• PAC-3:

151-21-3	Sodium Lauryl Sulfate	260 mg/m ³
56-81-5	Glycerol	1,100 mg/m ³
144-55-8	Sodium Hydrogencarbonate	840 mg/m ³

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.

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- *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 in original container in a cool, dry place and keep container closed when not in use. Avoid freezing and hot temperatures .
No special requirements.
- *Information about storage in one common storage facility:* Not required.
- *Further information about storage conditions:* Keep receptacle tightly sealed.
- *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.
- *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.

56-81-5 Glycerol

PEL Long-term value: 15* 5** mg/m³
mist; *total dust **respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

- *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.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- *Breathing equipment:* Not required.
- *Protection of hands:*
Protective gloves recommended in manufacturing.



Protective gloves

- *Material of gloves:*
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- *Penetration time of glove material:*
The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

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Trade Name: Natural Liquid Laundry- with Enzymes, All Variants

- Eye protection:



Tightly sealed goggles required in a manufacturing setting only.

- Limitation and supervision of exposure into the environment: None

9 Physical and Chemical Properties

- Information on basic physical and chemical properties
- General Information
- Appearance:

Form:	Liquid
Color:	Clear to light yellow
Odor:	Various
Odor threshold:	Not determined.
- pH-value @ 20 °C (68 °F): 7.5-8.5
- Change in condition

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	≥100 °C (≥212 °F)
- Flash point: ≥190 °C (≥374 °F)
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: ≥400 °C (≥752 °F)
- 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.
Upper:	Not determined.
- Vapor pressure @ 20 °C (68 °F): ≤23 hPa (≤17.3 mm Hg)
- Density @ 20 °C (68 °F): 1.0641 g/cm³ (8.8799 lbs/gal)
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with:

Water:	Miscible
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- 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.

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Trade Name: Natural Liquid Laundry- with Enzymes, All Variants

- *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:*

- *LD/LC50 values that are relevant for classification:*

151-21-3 Sodium Lauryl Sulfate

Oral	LD50	1,288 mg/kg (Rat)
Inhalative	LC50/4 h	>3,900 mg/l (Rat)
THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.		

56-81-5 Glycerol

Oral	LD50	12,600 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
Inhalative	LC50/96 hours	>50,000 mg/l (Trout)

110615-47-9 D-Glucopyranoside, C10-16 alkyl, oligomeric

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)

Proprietary Enzyme

Oral	LD50	>7,500 mg/kg (Rat)
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2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	1,020 mg/kg (Rat)
Inhalative	LC50/4 h	0.8 mg/l (Trout) (96 hr)

- *Primary irritant effect:*
- *On the skin:*
Irritant to skin and mucous membranes.
May cause an allergic skin reaction.
- *On the eye:* Irritating effect.
- *Sensitization:* Sensitization possible through skin contact.
- *Additional toxicological information:*
The product shows the following dangers according to internally approved calculation methods for preparations:
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.

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Trade Name: Natural Liquid Laundry- with Enzymes, All Variants

• OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

• Toxicity:

• Aquatic toxicity:

110615-47-9 D-Glucopyranoside, C10-16 alkyl, oligomeric

EC50 10-100 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:

Offer empty container for recycling. If recycling is not available, discard in trash.

Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

• UN-Number:

• DOT, ADR/ADN, IMDG, IATA

Non-Regulated Material

• UN proper shipping name:

• DOT, ADR/ADN, IMDG, IATA

Non-Regulated Material

• Transport hazard class(es):

• DOT, ADR/ADN, ADN, IMDG, IATA

• Class:

Non-Regulated Material

• Packing group:

• 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

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15 Regulatory Information

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

- Section 355 (extremely hazardous substances):

None of the ingredients are listed.

- Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

- TSCA (Toxic Substances Control Act):

151-21-3	Sodium Lauryl Sulfate	ACTIVE
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56-81-5	Glycerol	ACTIVE
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7647-14-5	Sodium Chloride	ACTIVE
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110615-47-9	D-Glucopyranoside, C10-16 alkyl, oligomeric	ACTIVE
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	Proprietary Enzyme	ACTIVE
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	Proprietary Enzyme	ACTIVE
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144-55-8	Sodium Hydrogencarbonate	ACTIVE
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2634-33-5	1,2-benzisothiazol-3(2H)-one	ACTIVE
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77-92-9	Citric Acid	ACTIVE
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7732-18-5	Water, distilled water, deionized water	ACTIVE
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- Hazardous Air Pollutants

None of the ingredients are listed.

- California Proposition 65:

- Chemicals known to cause cancer:

None of the ingredients are listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- New Jersey Right-to-Know List:

56-81-5	Glycerol
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- New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

- Pennsylvania Right-to-Know List:

56-81-5	Glycerol
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- Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

- Carcinogenic categories:

- EPA (Environmental Protection Agency):

None of the ingredients are listed.

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Trade Name: Natural Liquid Laundry- with Enzymes, All Variants

• **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

• **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

• **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:**

Sodium Lauryl Sulfate

Proprietary Enzyme

• **Hazard statements:**

H317 May cause an allergic skin reaction.

• **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **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: Pour into dishwasher rinse aid dispenser until full. Close compartment. Check levels periodically.

CAUTION: Keep out of reach from children. Eye irritant, in case of eye contact flush with cool water for 15 minutes. If ingested, drink plenty of water and do not induce vomiting. If discomfort continues consult a medical professional.

STORAGE & DISPOSAL: Store at room temperature away from direct sunlight. Do not reuse bottle to store any other liquids. Please rinse and recycle bottle for disposal.

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

• **Date of last revision/ revision number:** 08/08/2019 / 6

• **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

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Trade Name: *Natural Liquid Laundry- with Enzymes, All Variants*

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
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

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

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