

**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

Reviewed on 08/02/2019

**1 Identification**

- **Product Identifier**
- **Trade Name:** Natural Liquid Laundry Packs
- **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, contained in film pods
- **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:**



Acute Tox. 4      H302 Harmful if swallowed.  
 Skin Irrit. 2      H315 Causes skin irritation.  
 Eye Irrit. 2A      H319 Causes serious eye irritation.  
 Aquatic Acute 2 H401 Toxic to aquatic life.

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



- **Signal word:** Warning
- **Hazard-determining components of labeling:**  
dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)
- **Hazard statements:**  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H401 Toxic to aquatic life.
- **Precautionary statements:**  
P264                      Wash thoroughly after handling.

**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

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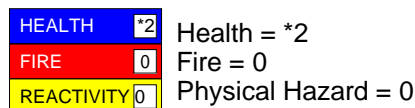
Trade Name: Natural Liquid Laundry Packs

- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P330 Rinse mouth.
- 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.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Unknown acute toxicity:**  
This value refers to knowledge of known, established toxicological or ecotoxicological values.  
1.2 % 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: 68551-12-2	alcohols, C12-16, ethoxylated ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Acute 2, H401	20-80%
CAS: 26836-07-7	dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1) ⚠ Acute Tox. 3, H301	0-20%
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	0-20%
CAS: 57-55-6 RTECS: TY 2000000	Propylene Glycol	0-20%
	Proprietary Enzyme ⚠ Resp. Sens. 1, H334; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	0-1%
	Proprietary Enzyme ⚠ Resp. Sens. 1, H334	0-1%

(Contd. on page 3)

## Safety Data Sheet (SDS)

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

· **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.

· **After swallowing:**

Do not induce vomiting without medical advice.

Seek immediate medical advice.

Never give anything by mouth to an unconscious person.

· **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:**

56-81-5	Glycerol	45 mg/m <sup>3</sup>
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57-55-6	Propylene Glycol	30 mg/m <sup>3</sup>
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(Contd. on page 4)

**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

· PAC-2:		
56-81-5	Glycerol	180 mg/m <sup>3</sup>
57-55-6	Propylene Glycol	1,300 mg/m <sup>3</sup>
· PAC-3:		
56-81-5	Glycerol	1,100 mg/m <sup>3</sup>
57-55-6	Propylene Glycol	7,900 mg/m <sup>3</sup>

**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 in original container in a cool, dry place and keep container closed when not in use. Avoid freezing and hot temperatures.
- **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 constituents are the only constituents of the product which have 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/m <sup>3</sup> mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.
57-55-6 Propylene Glycol	
WEEL	Long-term value: 10 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.  
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.

(Contd. on page 5)

**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

- **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.
- **Eye protection:**



Tightly sealed goggles recommended in a manufacturing setting only.

- **Limitation and supervision of exposure into the environment:**  
Keep away from drains, surface and ground waters.  
Avoid release into the environment.

**9 Physical and Chemical Properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - **Form:** Liquid - slightly viscous, contained in clear film
  - **Color:** Yellow
- **Odor:** Various
- **Odor threshold:** Not determined.
- **pH-value @ 20 °C (68 °F):** 8-9.5
- **Change in condition**
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** Not determined.
- **Flash point:** Not determined.
- **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.
  - **Upper:** Not determined.
- **Vapor pressure:** Not determined.

(Contd. on page 6)

**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

- **Density:**
  - Relative density: Not determined.
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.
- **Solubility in / Miscibility with:**
  - Water: Miscible
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 10.0%
  - VOC content: 0.00%
- **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>		
68551-12-2 alcohols, C12-16, ethoxylated		
Oral	LD50	>2,000 mg/kg (Rat)
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)
57-55-6 Propylene Glycol		
Oral	LD50	20,000 mg/kg (Rat)
Dermal	LD50	20,800 mg/kg (Rabbit)
Inhalative	LC50/96 hours	52,930 mg/l (Pimephales)
	Intravenous	6,630 mg/kg (Mouse)
		6,423 mg/kg (Rat)
		6,500 mg/kg (Rabbit)
Proprietary Enzyme		
Oral	LD50	>7,500 mg/kg (Rat)

(Contd. on page 7)

**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant

· **Carcinogenic categories:**

· <b>IARC (International Agency for Research on Cancer):</b>
None of the ingredients are listed.
· <b>NTP (National Toxicology Program):</b>
None of the ingredients are listed.
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b>
None of the ingredients are listed.

**12 Ecological Information**

- **Toxicity:**
- **Aquatic toxicity:**  
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

68551-12-2 alcohols, C12-16, ethoxylated
EC50   1 mg/l (Daphnia)
57-55-6 Propylene Glycol
EC50   >10,000 mg/l (Daphnia)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Generally not hazardous for water.  
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.  
Poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **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.

(Contd. on page 8)

**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

- *Uncleaned packaging*
- *Recommendation:* Offer empty container for recycling. If recycling is not available, discard in trash.
- *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

**15 Regulatory Information**

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

· <i>Section 355 (extremely hazardous substances):</i>
None of the ingredients are listed.
· <i>Section 313 (Specific toxic chemical listings):</i>
None of the ingredients are listed.
· <i>TSCA (Toxic Substances Control Act):</i>
All components have the value ACTIVE.
· <i>Hazardous Air Pollutants</i>
None of the ingredients are listed.
· <i>California Proposition 65:</i>
· <i>Chemicals known to cause cancer:</i>
None of the ingredients are listed.
· <i>Chemicals known to cause reproductive toxicity for females:</i>
None of the ingredients are listed.
· <i>Chemicals known to cause reproductive toxicity for males:</i>
None of the ingredients are listed.
· <i>Chemicals known to cause developmental toxicity:</i>
None of the ingredients are listed.
· <i>New Jersey Right-to-Know List:</i>
56-81-5   Glycerol
57-55-6   Propylene Glycol
· <i>New Jersey Special Hazardous Substance List:</i>
None of the ingredients are listed.



**Safety Data Sheet (SDS)**

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

· <i>Pennsylvania Right-to-Know List:</i>
56-81-5 Glycerol
57-55-6 Propylene Glycol
· <i>Pennsylvania Special Hazardous Substance List:</i>
None of the ingredients are listed.

· *Carcinogenic categories:*

· <i>EPA (Environmental Protection Agency):</i>
None of the ingredients are listed.
· <i>TLV (Threshold Limit Value established by ACGIH):</i>
None of the ingredients are listed.
· <i>NIOSH-Ca (National Institute for Occupational Safety and Health):</i>
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:*

dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)

· *Hazard statements:*

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

· *Precautionary statements:*

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

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.

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

· <i>National regulations:</i>
None of the ingredients are listed.

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

(Contd. on page 10)

## Safety Data Sheet (SDS)

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

Issue date 08/02/2019

Reviewed on 08/02/2019

Trade Name: Natural Liquid Laundry Packs

### 16 Other Information

#### Consumer Product Label Information

**DIRECTIONS:** Follow fabric care label instructions. Determine the size of your load to avoid overloading your washer. Depending on load size place 1 to 2 laundry packs at the back or bottom of the machine drum. Do not place in the dispenser drawer. Place clothes into the washer. Select appropriate wash cycle that lasts at least 15 minutes. Only use dry hands to handle packs and reseal pouch after each use. Child-Resistant Zipper: line up the red slider to notch on white zipper track, press the slider down, and move it to the right to open while holding the slider down. Fully re-zip the package to close after each use.

**WARNING:** Concentrated detergent packets can burst if children put them in mouth or play with them. The liquid inside is harmful if put in mouth, swallowed, or in eyes. Keep packets out of reach of children. • Store container where children cannot reach or climb to it, out of sight and in a secure place. • Keep container fully closed. • Never leave any packets out of container. • DO NOT let children handle packets, even if supervised. Avoid breaking packets. • Do not handle packets with wet or moist hands. Do not expose packets to moisture. Do not cut or puncture packets. If packets stick together, do not try to separate them. Call poison control center immediately if detergent gets in mouth or eye or on skin. Immediately and thoroughly rinse eye or skin with water for 20 min.

**STORAGE & DISPOSAL:** Store at room temperature. Store sealed pouch in a dry location at room temperature.

• *Date of last revision/ revision number: 08/02/2019 / 4*

• *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)

VOC: Volatile Organic Compounds (USA, EU)

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. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

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

Resp. Sens. 1: Respiratory 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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