

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 08/16/2021 Version: 1.0

#### **SECTION 1: Identification**

1.1.IdentificationProduct formProduct name

: Mixture

: GreenClean Alkaline Cleaner

### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

BioSafe Systems LLC 22 Meadow Street East Hartford, CT 06108 - United States

#### 1.4. Emergency telephone number

Emergency number

: CHEMTREC: 1-800-424-9300

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin Corr. 1A H314 Eye Dam. 1 H318

#### 2.2. GHS Label elements, including precautionary statements

#### GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage.
Precautionary statements (GHS US)	<ul> <li>P260 - Do not breathe mist/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective gloves, protective clothing, chemical goggles, &amp; face protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water/shower</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call poison center/doctor/</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>

#### 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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 3.2. Mixtures

Name	Product identifier	%
Sodium hydroxide	(CAS-No.) 1310-73-2	3 – 7
D-Glucopyranose, oligomeric, decyl octyl glycosides	(CAS-No.) 68515-73-1	1 – 5
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	(CAS-No.) 110615-47-9	1 – 5
1-Dodecanamine, N,N-dimethyl-, N-oxide	(CAS-No.) 1643-20-5	1 – 5

\*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret.

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general :	If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.	
First-aid measures after inhalation :	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.	
First-aid measures after skin contact :	IF ON SKIN (or clothing), remove affected clothing and wash all exposed skin with water for at least 15 minutes. Get immediate medical attention.	
First-aid measures after eye contact :	IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.	
First-aid measures after ingestion :	IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.	
4.2. Most important symptoms and effects	(acute and delayed)	
Symptoms/effects :	Causes severe skin burns and eye damage.	
Commutance / offerster often in belation	Navy and a second se	

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes severe skin burns.
Symptoms/effects after eye contact	: Causes severe eye damage.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

#### No additional information available

SECTIO	SECTION 5: Fire-fighting measures		
5.1.	5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray.			
5.2.	2. Specific hazards arising from the chemical		
Fire hazard : Not flammable.		Not flammable.	
Explosio	n hazard :	Product is not explosive.	
Reactivit	у :	No dangerous reactions known under normal conditions of use.	
5.3. Special protective equipment and precautions for fire-fighters			
Precautio	Precautionary measures fire : Eliminate all ignition sources if safe to do so.		
Firefighti	ng instructions :	Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not dispose of fire-fighting water in the environment.	
Protectio	n during firefighting :	Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.	
SECTIO	N 6: Accidental release measures		
6.1.	Personal precautions, protective equi	pment and emergency procedures	
General	measures :	Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.	
6.1.1.	For non-emergency personnel		
Protectiv	e equipment :	Wear Protective equipment as described in Section 8.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.1.2. For emergency responders

Protective equipment

: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

#### 6.2. **Environmental precautions**

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for contain	B. Methods and material for containment and cleaning up	
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters.	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.	
<b>6.4. Reference to other sections</b> See Sections 8 and 13.		

SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions for safe handling	Do not handle until all safety precautions have been read and understood. Keep container closed when not in use. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2.	Conditions for safe storage, including any incompatibilities	
Storage	e conditions	Store in original container. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in a dry, cool and well-ventilated place.
Incomp	atible materials	: No data available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
D-Glucopyranose, olig	omeric, C10-16-alkyl glycosides (110615-4	7-9)
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
1-Dodecanamine, N,N-dimethyl-, N-oxide (1643-20-5)		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
Sodium hydroxide (1310-73-2)		
ACGIH	ACGIH OEL C	2 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
ACGIH	Regulatory reference	ACGIH 2021
OSHA	OSHA PEL TWA [1]	2 mg/m³
OSHA	OSHA PEL C	2 mg/m³
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment symbol(s):



#### Personal protective equipment:

Gloves. Protective goggles. Wear chemically impervious apron over labcoat and full coverage clothing. In case of inadequate ventilation, wear respiratory protection.

#### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

#### Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

#### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

#### **Respiratory protection:**

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with gas filter (type A2). Wear an appropriate certified full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: 12 – 14 concentrate
pH solution	: 11 – 13 1.0% v/v solution
Melting point	: No data available
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
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific Gravity	: 0.9 – 1.1
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	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

: No data available

Oxidising properties

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

None under normal use.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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	
Skin corrosion/irritation	: Causes severe skin burns.	
	pH: 12 – 14 Concentrate, 11 – 13 1.0% v/v solution	
Serious eye damage/irritation	: Causes serious eye damage.	
	pH: 12 – 14 Concentrate, 11 – 13 1.0% v/v solution	
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	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: Not applicable	
Symptoms/effects	: Causes severe skin burns and eye damage.	
Symptoms/effects after inhalation	: May cause respiratory irritation.	
Symptoms/effects after skin contact	: Causes severe skin burns.	
Symptoms/effects after eye contact	: Causes severe eye damage.	
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.	

#### **SECTION 12: Ecological information**

12.1. Toxicity

Ecology - general

: No data available.

### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.5. Other adverse effects	
Other adverse effects	: No data available.
SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Transport document description (DOT)	: UN3266 Corrosive liquid, basic, inorganic, n.o.s., 8, II
UN-No.(DOT)	: UN3266
Proper Shipping Name (DOT)	: Corrosive liquid, basic, inorganic, n.o.s.
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE 8
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters",52 - Stow "separated from" acids
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.
Fransport by sea (IMDG)	
Transport document description (IMDG)	: UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., 8, II
JN-No. (IMDG)	: 3266
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
_imited quantities (IMDG)	: 1L
Air transport (IATA)	
Transport document description (IATA)	: UN 3266 Corrosive liquid, basic, inorganic, n.o.s., 8, II
UN-No. (IATA)	: 3266
Proper Shipping Name (IATA)	: Corrosive liquid, basic, inorganic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

### SECTION 15: Regulatory information

15.1. US Federal regulations

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

GreenClean Alkaline Cleaner	
All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active- Inactive) Requirements Rule" ("the Final Rule"). as of Feb. 2019 or are otherwise exempt.	
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation

Sodium hydroxide (1310-73-2)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1000 lb

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

Component	State or local regulations
Sodium hydroxide(1310-73-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List; U.S Massachusetts - Right To Know List
Pentasodium triphosphate(7758-29-4)	U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Tetrasodium pyrophosphate(7722-88-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Other information	: Author: JAD.
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS Hazard Rating	
Health	: 3
Flammability	: 0
Physical	: 0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.