

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : ENZYFOAM SG  
Product code : LIQ0969

### 1.2. Recommended use and restrictions on use

No additional information available

### 1.3. Supplier

REALZYME  
S Pioneer BLVD, 223  
Springboro, - OH 45066 - United States of America  
T +1 937 350 56 60 - F +1 937 350 56 60  
[info@realzyme.com](mailto:info@realzyme.com) - [www.realzyme.com](http://www.realzyme.com)

### 1.4. Emergency telephone number

Emergency number : +1- 800 - 222 - 1222 (United States only) 011-32-70-245-245 (Canada and all other areas)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

##### Pure product

Serious eye damage/eye irritation, Category 2A H319 Causes serious eye irritation.

#### Product used at recommended concentration (3%)

Not classified as hazardous.

Full text of H statements : see section 16

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

#### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation.

Precautionary statements (GHS-US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

#### Product used at recommended concentration (3%)

Labeling not applicable. Product not classified as hazardous.

### 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

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Alkyl polyglucoside C10-16	(CAS-No.) 110615-47-9	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318

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Name	Product identifier	%	GHS-US classification
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-FC18-18 acyl derivs, hydroxides, inner salts	(CAS-No.) 61789-40-0	1 - 5	Not classified
Amines, coco alkylidimethyl, N-oxides	(CAS-No.) 61788-90-7	0.1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : If on skin, take off contaminated clothing. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air. Assure fresh air breathing.
- First-aid measures after skin contact : Rinse with plenty of water. Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse immediately with plenty of water. 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/attention.
- First-aid measures after ingestion : Rinse mouth. 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 : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- Symptoms/effects after skin contact : Redness. Repeated or prolonged skin contact may cause irritation.
- Symptoms/effects after eye contact : Redness. Eye irritation.
- Symptoms/effects after ingestion : Abdominal pain, nausea.

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : All extinguishing media allowed. Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : None.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : Not combustible.
- Explosion hazard : Product is not explosive.
- Reactivity : Stable in use and storage conditions as recommended in item 7.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Precautionary measures fire : Wear proper protective equipment.
- Firefighting instructions : Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Personal protection. See Heading 8.
- Emergency procedures : Ventilate spillage area. Evacuate area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. See Heading 8. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Mark the danger area. Stop leak if safe to do so.

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### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

- For containment : Dike for recovery or absorb with appropriate material.
- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dilute residue with water.
- Other information : Spill area may be slippery. Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 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 container closed when not in use. Store in a well-ventilated place. Keep cool.
- Storage temperature : 4 - 25 °C
- Heat and ignition sources : Store away from direct sunlight or other heat sources.
- Special rules on packaging : Keep only in original container.
- Packaging materials : PEHD.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Alkyl polyglucoside C10-16 (110615-47-9)</b>
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Not applicable
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<b>Amines, coco alkyldimethyl, N-oxides (61788-90-7)</b>
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Not applicable
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### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure adequate ventilation. Ensure good ventilation of the work station.
- Environmental exposure controls : Prevent entry to sewers and public waters. Avoid release to the environment. Avoid release to the environment.

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

#### Personal protective equipment:

Dust/aerosol mask with filter type P3. Gloves. Safety glasses.

#### Hand protection:

In case of repeated or prolonged contact wear gloves. (EN 134)

#### Eye protection:

Chemical goggles or safety glasses. Eye protection (standard EN 166). Safety glasses

#### Skin and body protection:

Use chemically protective clothing

#### Respiratory protection:

Approved dust or mist respirator (acc. to EN 140 or EN 136) should be used if airborne particles are generated when handling this material. Recommended Filter: type P3 (acc. to EN 143). The entrepreneur has to ensure that maintenance cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

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

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### Thermal hazard protection:

Not applicable.

### Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. The equipment must be cleaned thoroughly after each use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light brown
Odour	: characteristic
Odour threshold	: Not determined
pH	: 7.2 - 7.6
Melting point	: The product has not been tested
Freezing point	: The product has not been tested
Boiling point	: The product has not been tested
Flash point	: The product has not been tested
Relative evaporation rate (butylacetate=1)	: The product has not been tested
Flammability (solid, gas)	: Not applicable Not applicable.
Vapour pressure	: The product has not been tested
Relative vapour density at 20 °C	: The product has not been tested
Relative density	: 0.965 - 1.065
Solubility	: Material highly soluble in water.
Log Pow	: The product has not been tested
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Viscosity, kinematic	: The product has not been tested
Viscosity, dynamic	: The product has not been tested
Explosive limits	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Not applicable.

### 9.2. Other information

Additional information : None

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

### 10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

None.

### 10.5. Incompatible materials

None to our knowledge.

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### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: 7.2 - 7.6
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7.2 - 7.6
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Redness. Repeated or prolonged skin contact may cause irritation.
Symptoms/effects after eye contact	: Redness. Eye irritation.
Symptoms/effects after ingestion	: Abdominal pain, nausea.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Alkyl polyglucoside C10-16 (110615-47-9)	
LC50 fish 1	10 - 100 mg/l
Additional ecotoxicological information	EC0, microorganisms: > 100 mg/l
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Additional ecotoxicological information	LC50, Fish, acute, Danio rerio: 10-100 mg/l (96 Hours, (OECD 203)) EC50, daphnia, Daphnia magna: 4.4 mg/l (48 Hours, (US-EPA)) EC50, algae, Pseudokirchneriella subcapitata: 0.11 mg/l (96 Hours, (US-EPA)) EC50, Bacteria, Pseudomonas putida: 190 mg/l (16 Hours, (DIN 38412 part 8))

### 12.2. Persistence and degradability

ENZYFOAM SG	
Biodegradation	> 99 % (OECD 302B method)
Alkyl polyglucoside C10-16 (110615-47-9)	
Persistence and degradability	Biodegradable.
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Persistence and degradability	Biodegradable.
Biodegradation	> 80 % (OECD 302 B)

### 12.3. Bioaccumulative potential

ENZYFOAM SG	
Log Pow	The product has not been tested

### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

**Product at recommended concentration (3%)** : Non-hazardous for the environment (non-hazardous mixture)

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Remove to an authorized waste treatment plant. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : May be discharged to wastewater treatment installation.

**Product at recommended concentration (3%)** : Non-hazardous for the environment. No special requirements needed for sewage disposal.

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point. When totally empty, containers are recyclable like any other packing.

Ecology - waste materials : Avoid release to the environment.

**Product at recommended concentration (3%)** : Non-hazardous for the environment. No special requirements needed for waste disposal.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not applicable

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Alkyl polyglucoside C10-16 (110615-47-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

N - N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - P - indicates a commenced Premanufacture Notice (PMN) substance.

#### Amines, coco alkyldimethyl, N-oxides (61788-90-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

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### SECTION 16: Other information

Full text of H-statements:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

NFPA health hazard

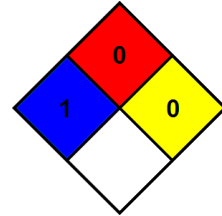
: 1 - Materials that, under emergency conditions, can cause significant irritation.

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.



SDS US (GHS HazCom 2012)

*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*