

Branched Amphipathic Peptide Capsules

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Date of Issue: 09/28/2018

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Branched Amphipathic Peptide Capsules

1.2. Intended Use of the Product

Use of the Substance/Mixture: For Research Use Only. Not for use in diagnostic procedures.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Phoreus Biotechnology, Inc.

22201 W. Innovation Drive

Olathe, Kansas 66061-1304

Tel: 913.307.7364

www.phoreusbiotech.com

1.4. Emergency Telephone Number

Emergency Number (Chemtrec) : 800.424.9300 **Non-Emergency Number :** 913.307.7364

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Liquid

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

2.2. Label Elements

GHS-US Labeling

Signal Word (GHS-US) : None

Hazard Statements (GHS-US) : Not classified

2.3. Other Hazards

The toxicological properties of this substance have not been fully investigated. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

100% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

100% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

100% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Mist))

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
L-Lysinamide, N2,N6-bis(N-acetyl-L-phenylalanyl-L-leucyl-L-isoleucyl-L-valyl-L-isoleucylglycly-L-seryl-L-isoleucyl-L-isoleucyl)-L-lysyl-L-lysyl-L-lysyl-L-lysyl-	(CAS-No.) 1492039-68-5	0.05	
L-Lysinamide, N2,N6-bis(N-acetyl-L-phenylalanyl-L-leucyl-L-isoleucyl-L-valyl-L-isoleucyl)-L-lysyl-L-lysyl-L-lysyl-L-lysyl-	(CAS-No.) 1492039-67-4	0.05	
Water	(CAS-No.) 7732-18-5	99.9	
Name	Product Identifier	%	GHS-US classification
Poly-L-lysine solution	OLL-10	0.001	
Water	(CAS-No.) 7732-18-5	99.999	

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid Measures After Skin Contact: Rinse cautiously with water for several minutes. Immediate medical attention is not required.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Immediate medical attention is not required.

First-aid Measures After Ingestion: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Non-irritant

Symptoms/Injuries After Inhalation: . Non-irritant

Symptoms/Injuries After Skin Contact: Non-irritant

Symptoms/Injuries After Eye Contact: Non-irritant

Symptoms/Injuries After Ingestion:

Chronic Symptoms: The chronic effects of this substance are unknown.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: None

Explosion Hazard: None

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Standard procedure for chemical fires.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: .

Other Information:

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures:

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

6.2. Environmental Precautions

No special environmental precautions required.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain spills with appropriate barriers and prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Soak up with inert absorbent material.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed:

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

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7.3. Specific End Use(s)

Inert ingredient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye and Face Protection

: Chemical safety goggles.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: In solution, transparent in its colloidal state. White Granular Powder when dry.
Odor	: Odor free
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: 0°C
Freezing Point	: 0°C
Boiling Point	: 100°C
Flash Point	: N.A.
Auto-ignition Temperature	: No data available
Decomposition Temperature	: 225° C
Flammability (solid, gas)	: Non-Flammable
Vapor Pressure	: N.A.
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: Not Soluble in water. Peptides self-assemble to form stable colloids that remain suspended in water column.
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.

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10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products: The nature of the decomposition products are unknown.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: The toxicological properties of this material have not been investigated. For research and development purposes only.

Skin Corrosion/Irritation: Non-irritant

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Non-irritant

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/Injuries After Inhalation: None known

Symptoms/Injuries After Skin Contact: None known

Symptoms/Injuries After Eye Contact: None known

Symptoms/Injuries After Ingestion: None known

Chronic Symptoms: The chronic effects of this substance are unknown.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

12.2. Persistence and Degradability

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Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

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Bioaccumulative Potential	Not established.

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

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SARA Section 311/312 Hazard Classes	Physical hazard - None

15.2. US State Regulations Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed.

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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 06/28/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

None	
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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.

SDS US (GHS HazCom)