# Safety Data Sheet

**FSS Silk Amino Acids PF**

**Date:** 07 / 10 / 2018  
**Version:** 6  
**Cancels and replaces version:** 5

## SECTION 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name/Identifier</th>
<th>FSS Silk Amino Acids PF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>FSS16086</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Topical Cosmetic Use</td>
</tr>
<tr>
<td>Restrictions on Use</td>
<td>None</td>
</tr>
</tbody>
</table>

**Supplier/Manufacturing Site:** Formulator Sample Shop  
**Address:** 135 Joshua Court  
Lincolnton, NC 28092, USA

**Telephone No. (24hrs):** 1-704-276-7099

**Emergency Telephone #:** 1-704-276-7099 (Mon-Fri: 8:00AM – 5:00PM EST)

## SECTION 2. HAZARD(S) IDENTIFICATION

**Classification:**

**GHS / CLP**  
**Basis for Classification:** Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

**USA**  
**OSHA Regulatory Status:** This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Europe**  
**Basis for Classification:** -According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.  
-This product is not classified as hazardous to health or environment according to the CLP regulation.

**Labeling Elements:**

**Pictograph:** No hazard symbol expected  
**Hazard statements/Signal Word:** Not applicable  
**Precautionary statements:** P233: Keep container tightly closed  
P281: Use personal protective equipment as required  
P402: Store in a dry place  
P404: Store in a closed container  
P410: Protect from sunlight  
P411: Store at temperatures not exceeding 25°C
Other hazards which do not result in classification:

No particular fire or explosion hazard.
By mechanical effect: No particular hazards.
By hydrosopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 0; Normal Material
Flammability: Rating 0, Will Not Burn
Reactivity: Rating 0, Stable
Other Hazard Information: None

Results of PBT and vPvB assessment:

-PBT: Not applicable
-vPvB: Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name: Silk Amino Acids

Generic name:

Chemical Family: Hydrolyzed Protein

Description: Mixture: consisting of the following components. This section describes all components of the mixture

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Numbers</th>
<th>EC Numbers</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>81.00%</td>
</tr>
<tr>
<td>Silk Amino Acids</td>
<td>96690-41-4</td>
<td>306-235-8</td>
<td>17.00%</td>
</tr>
<tr>
<td>Lactobacillus Ferment</td>
<td>1686112-36-6 (or) 68333-16-4</td>
<td>N/A (or) N/A</td>
<td>2.00%</td>
</tr>
</tbody>
</table>

Formula: Not applicable

SECTION 4. FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Move to fresh air from exposure area. Get medical attention for any breathing difficulty.

Skin contact: Rinse with soap and water. Get medical advice if irritation develops.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.
Ingestion: Consult with a physician.

Protection of first-aiders: No special protection required.

SECTION 5. FIRE-FIGHTING MEASURES

Fire and explosion hazards: Not considered to be a fire and explosion hazard

Extinguishing media:

Suitable: Water, dry chemicals, foam and carbon dioxide

Not suitable: None known

Firefighting:

Move container from fire area if it can be done without risk.
Avoid inhalation of material or combustion by-products.
Stay upwind and keep out of low area

Protection for fire-fighters: Boots, gloves, goggles.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes.

Environmental precautions: Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system

Methods for cleaning up:

Recovery: Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material.

Cleaning/Decontamination: Wash non-recoverable remainder with water.

Disposal: For disposal of residues refer to sections 8 & 13.

SECTION 7. HANDLING AND STORAGE

Handling

Technical measures: Labeling: Keep out of the reach of children.
Measures: For industrial use, only as directed.
Safe handling advice: Wash hands after use. Avoid storage near feed or food stuff.
Safety Data Sheet

FSS Silk Amino Acids PF

Date: 07 / 10 / 2018
Version: 6
Cancels and replaces version: 5

Storage
Technical measures: Keep container closed.
Recommended Storage Conditions: Store in a cool, dry place. This material must be stored at room temperature (23 - 25°C). It should not be exposed to excessive heat or cold. Do not freeze.
Incompatible products: Avoid contact with strong oxidizers.
Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)
Packaging: Product may be packaged in normal commercial packaging.
Packaging materials: Recommended - Polypropylene & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements: Ensure adequate ventilation

Control parameters

Occupational exposure Limits:

France: Not Determined
ACGIH: Not Determined
Korea: Not Determined
UK: Not Determined

Surveillance procedures: Not Determined
Engineering measures: Not Determined

Personal Protective Equipment:

Respiratory protection: Local exhaust
Hand protection: Protective gloves made of rubber or neoprene.
Eye protection: Safety glasses.
Collective emergency equipment: Eye fountain.
Skin and Body Protection: Suitable protective clothing
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to slightly hazy liquid
Color: 10 Gardner Maximum
Odor: Characteristic

Non-Volatile Matter (1g / 1hr @ 105°C): 14.0 – 20.0%
pH (Direct): 3.5 – 6.0

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Safety Data Sheet

FSS Silk Amino Acids PF

Date: 07 / 10 / 2018
Version: 6
Cancels and replaces version: 5

Nitrogen (Kjeldahl): 2.0 – 2.8%
Ash (800°C): 2.5% Maximum
Heavy Metals: < 20 ppm
   Lead: < 10 ppm
   Arsenic: < 2 ppm
   Cadmium: < 1 ppm
Microbial Content: < 100 CFU/g; No pathogens
   Yeast & Mold: < 100 CFU/g
   Gram Negative Bacteria: 0 CFU/g
Specific Gravity: 1.01
Vapor density: Not applicable
Boiling Point: 100°C
Freezing Point: 0°C
Melting point: Not applicable
Flash point: > 200°F
Oxidizing properties: Non oxidizing material according to EC criteria.

Solubility:
   In water: Soluble
   In organic solvents: Not determined
   Log P: Not determined

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life
Hazardous reactions: None known
Conditions to avoid: No dangerous reactions known under use of normal conditions.
   Avoid extreme heat.
Materials to avoid: No dangerous reaction known with common products.
Hazardous decomposition products: None known

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion: Not Determined
Dermal: Not Determined
Ocular: Not Determined
Inhalation: Not Determined

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Acute toxicity data: Not Determined
Sensitization: Non-Primary Sensitizers
Repeated dose toxicity: No known effects
Subacute to chronic toxicity: Not Determined

Additional Toxicological Information: This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Specific effects:
Carcinogenicity: No known effects
Mutagenicity: No known effects
Reproductive toxicity: No known effects
Neuro-toxicity: No known effects

For more information: Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

This product has not been tested for the following:
- Primary cutaneous and corrosive irritation
- Acute oral toxicity
- Mutagenicity/genotoxicity

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Effects on the aquatic environment: Not Determined

Biodegradaibility:
Persistence: Not Determined

Bioaccumulation:
Octanol / water partition coefficient: Not Determined

Mobility:
Precipitation:
Expected behavior of the product: Ultimate destination of the product: Soil & sediment.

Other Adverse Effects: None known

SECTION 13. DISPOSAL CONSIDERATIONS

Residues from product

Prohibition: Do not allow the product to be released into the Environment.
Destruction/Disposal: Dispose of in accordance with relevant local regulations

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Contaminated packaging

Decontamination/cleaning: Cleaning is not required prior to disposal.
Destruction/Disposal: 

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: None
UN Shipping Name: None

Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG
Air: Material is not restrictive for land transport and is not regulated by ICA/IATA

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION

Labeling:
EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

Further regulations

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually)

Korea regulations: Industrial safety and hygiene regulation: No Hazardous material control regulation: No Fire prevention regulation: No

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Safety Data Sheet

FSS Silk Amino Acids PF

Date: 07 / 10 / 2018
Version: 6
Cancels and replaces version: 5

Other regulations:

EINECS inventory status:
- Aqua: 231-791-2
- Silk Amino Acids: 306-235-8
- Lactobacillus Ferment: N/A (or) N/A

TSCA inventory status:
Exempt

AICS inventory status:
Not Listed: 1686112-36-6
Listed: 7732-18-5 & 96690-41-4 & 68333-16-4

Canadian (CEPA DSL) inventory status:
Not Listed: Lactobacillus Ferment (1686112-36-6)
Listed as Water (DSL) & Protein Hydrolyzates, Silk (DSL) & Lactobacillus acidophilus (Revised ICL)

Japan (MITI list):
Water & Silk Amino Acids & Lactobacillus Ferment

Korea:
Water & Silk Amino Acids & Lactobacillus Ferment

China inventory status:
Water & Silk Amino Acids & Lactobacillus Ferment

Philippines inventory status:
Not Listed: Lactobacillus Ferment (1686112-36-6 (or) 68333-16-4)
Listed as Water & Protein Hydrolyzates, Silk

*Listed on 2010 INCI Standard Chinese Name Directory

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user’s attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions.

SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: 07/10/2017

Preparation Date: 07/10/2018

MSDS summary of changes
- Added Heavy Metals & Arsenic – Section 9 (Physical & Chemical Properties)
- Updated Transport Information – Section 14 (Transport Information)
- Updated CAS/EINEC#’s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information)
- Added Lead & Cadmium & Updated Microbial Content – Section 9 (Physical & Chemical Properties)
- Updated CAS/EINEC#’s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information)

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.

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Page 8 of 8
Version#6/07-10-18/Form#77