

135 Joshua Court, Lincolnton, NC 28092 USA

SECTION 1. IDENTIFICATION

Product Name/Identifier

FSS Plant Keratin PF

Product Code

FSS20624PF

Recommended Use

Ingredients/Raw materials used in the manufacturing of Cosmetic Products'

Restrictions on Use

None

Supplier/Manufacturing Site

Formulator Sample Shop, LLC

Address

135 Joshua Court

Lincolnton, NC 28092, USA

21116011116111, 116 20032,

Telephone No. (24hrs)

1-704-276-7540

Emergency Telephone #

1-704-276-7540 (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 Reg. (EC) No 1272/2008.

This product is not classified as hazardous to health or environment

according to the CLP regulation.

Labeling Elements:

Pictograph: No ha

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 32°C

Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards. By hygroscopic effect: No particular hazards.



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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: Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein

Generic name:

Chemical Family: Hydrolyzed Protein

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

<u>Substance</u>	CAS Numbers	EC Numbers	<u>Percentage</u>
Hydrolyzed Corn Protein	100209-41-4	309-349-6	39.00%
Hydrolyzed Wheat Protein	70084-87-6 (or)	N/A (or)	32.00%
	94350-06-8	305-225-0	
Hydrolyzed Soy Protein	68607-88-5	271-770-5	27.00%
	1686112-10-6 (or)	N/A (or)	
Leuconostoc/Radish Root Ferment Filtrate	84775-94-0 (or)	283-918-6 (or)	2.00%
	9015-54-7	295-635-5	

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



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Extinguishing media:

Suitable: Water, dry chemicals, foam and carbon dioxide

Not suitable: None known

Fire fighting: 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.

Personal Protective Equipment:

-Protective goggles

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. Sweep or vacuum up any powder and place in

a clearly labeled waste container, avoiding dust formation.

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.

Storage

Technical measures: Keep container closed.

Recommended Storage Conditions: Store in a dry place at temperatures not exceeding 32°C. Based on stability studies,

the optimum storage temperature for maximization of shelf life is 23 - 25°C. However, it may be stored at temperatures between 16 and 32°C if such specific temperature control is not available. Do not freeze. Please refer to stability data for

effects heat or cold may have on the specifications of the product.

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



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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: Amber liquid

Color: 12 Gardner Maximum

Odor: Characteristic

Non-Volatile Matter (1g-1hr-105°C): 20.0% Minimum

pH (Direct): 6.0 – 8.0

 Heavy Metals:
 < 20 ppm</td>

 Lead:
 < 10 ppm</td>

 Arsenic:
 < 2 ppm</td>

 Cadmium:
 < 1 ppm</td>

Microbial Content: < 100 CFU/g; No pathogens

Yeast & Mold: < 100 CFU/g Gram Negative Bacteria: 0 CFU/g

Specific Gravity: 1.05

Vapor density: Not applicable

Boiling Point: 100° C Freezing Point: 0° C

Melting point: Not applicable



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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:Non-Irritant (Dermal Irritection Model)Ocular:Non-Irritant (Ocular Irritection Model)

Inhalation: Not Determined

Acute toxicity data: Non-Irritant, Non-Primary Sensitizer & Non-Photo irritant

Sensitization: Non-Primary Sensitizer; Will not cause allergic contact dermatitis (In Chemico

Skin Sensitization Direct Peptide Reactivity Assay & In Vitro Skin

Sensitization ARE-Nrf2 Luciferase Test Method)

Repeated dose toxicity:

Subacute to chronic toxicity:

No known effects

Not Determined

Mutagenicity: Non-Mutagenic (OECD471/ISO10993.Part 3 – Genotoxicity: Bacterial

Reverse Mutation Test)

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:

Endocrine Disruption: No endocrine disrupting properties with respect to the promotion or inhibition of 17β-

estradiol and testosterone production (OECD456: H295R Steroidogenesis Assay)

Carcinogenicity:

Mutagenicity:

Reproductive toxicity:

No known effects



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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: EC_{10} (Freshwater Alga): 136.49 mg/L - Not harmful to aquatic organisms

EC₂₀ (Freshwater Alga): 250.87 mg/L - Not harmful to aquatic organisms

Biodegradability:

Persistence: Readily Biodegradable (86.55% biodegradation after 28 days of testing)

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

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 air transport and is not regulated by ICAO/IATA

Marine Pollutant: No



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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

Germany: Regulations concerning the classification of hazards for water

(WGK – Wassergefährdungsklasse:):

- WGK 1 - Low hazard to waters (VwVwS dd 27/07/2005, KBws)

Other regulations:

EINECS inventory status: Hydrolyzed Corn Protein: 309-349-6

Hydrolyzed Wheat Protein: N/A (or) 305-225-0

Hydrolyzed Soy Protein: 271-770-5

Leuconostoc/Radish Root Ferment Filtrate: N/A (or) 283-918-6 (or) 295-635-5

TSCA inventory status: Exempt

AICS inventory status: Exempt: 100209-41-4 & 70084-87-6

Not Listed: 1686112-10-6

Listed: 94350-06-8 & 68607-88-5 & 84775-94-0 (or) 9015-54-7

Canadian (CEPA DSL) inventory status: Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6)

Listed as Protein hydrolyzates, corn (Revised ICL) & Glutens, enzyme-modified (NDSL) (or)

Protein hydrolyzates, wheat germ (Revised ICL) & Protein hydrolyzates, soya (DSL) &

Radish, ext. (Revised ICL) (or) Protein Hydrolyzates (DSL)

Japan (MITI list): Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein &

Leuconostoc/Radish Root Ferment Filtrate

Korea: Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein &

Leuconostoc/Radish Root Ferment Filtrate**

China inventory status: Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein &

Leuconostoc/Radish Root Ferment Filtrate



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Other regulations (Continued):

Exempt: Hydrolyzed Corn Protein (100209-41-4) & Hydrolyzed Wheat Protein (70084-87-6 Philippines inventory status:

(or) 94350-06-8)

Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6 (or) 84775-94-0)

Listed as Protein hydrolyzates, soya & Protein Hydrolyzates

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: 11/23/2022

Preparation Date: 08/22/2024

MSDS summary of changes - Added Heavy Metals & Arsenic – Section 9 (Physical & Chemical Properties)

- Updated Transport Information - Section 14 (Transport Information)

- Added Mutagenicity Data – Section 11 (Toxicological Information)

- Added Germany Regulatory Information – Section 15 (Regulatory Information)

- Updated CAS/EINEC#'s - Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information), Added Sensitization Data – Section 11 (Toxicological Information)

& Added Biodegradability Data – Section 12 (Ecological Information) - Added Acute Toxicity Data - Section 11 (Toxicological 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)

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(Regulatory Information)

- Updated Precautionary Statement - Section 2 (Hazards Information), Updated Recommend Storage Conditions - Section 7 (Handling & Storage), Updated Acute Toxicity Data – Section 11 (Toxicological Information) & Added Ecotoxicity Data – Section 12

(Ecological Information)

- Updated Europe Basis for Classification – Section 2 (Hazards Information)

- Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures)

- Updated Acute Toxicity Data – Section 11 (Toxicological Information)

- Updated Recommended Use - Section 1 (Identification) & Added & Endocrine Disruption

Data – Section 11 (Toxicological 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.

^{**}Not listed in 2004 CTFA Dictionary – Registered with Personal Care Products Council