

Material Safety Data Sheet

According to Regulation (EU) No. 453/2010

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### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Name: Product Code: FSS Plant Keratin PF FSS20624PF

#### 1.2. Relevant identified uses of the substance/mixture and uses advised against

Recommended Use: Restrictions on Use: Topical cosmetic use. None.

#### 1.3. Details of the supplier of the safety data sheet

Company name: Company address: Telephone number: Fax number: E-mail address: Formulator Sample Shop<sup>®</sup> Srl P.O. Box – 20087 Robecco sul Naviglio (Milan) Italy +39 (0)2 902 78 641 +39 (0)2 903 60 718 info@formulatorsampleshop.eu

#### 1.4. Emergency telephone number

Emergency telephone number: +39 (0)2 902 78 641 - Mon-Fri: 8:30AM-5:30PM

#### 2. HAZARDS IDENTIFICATION

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

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
	<ul> <li>according to Regulation (EC) No. 1272/2008 (amending and repealing Directives 67/548/EEC and 1999/45/EC).</li> <li>This product is not classified as hazardous to health or environment according to the CLP regulation.</li> </ul>
Nature of special risks attributed:	None in particular
2.2. Labeling Elements	
Provided symbols / Pictograph:	No hazard symbol expected
Hazard Statements/Signal Words:	Not applicable



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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

#### 2.3. Other hazards which do not result in classification:

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

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

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

Results of PBT and vPvB assessment:

-PBT:	Not applicable
-vPvB:	Not applicable

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Composition/information on ingredients

Common Chemical Name:Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy<br/>ProteinGeneric Name:Hydrolyzed ProteinChemical Family:Hydrolyzed Protein

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

Substance	<b>CAS Numbers</b>	EC Numbers	<b>Percentage</b>
Hydrolyzed Corn Protein	100209-41-4	309-349-6	39.00%
Hydrolyzed Wheat Protein	100209-45-8	309-353-8	32.00%
Hydrolyzed Soy Protein	68607-88-5	271-770-5	27.00%
Leuconostoc/Radish Root Ferment Filtrate	1686112-10-6	N/A	2.00%

Formula:

Not applicable

#### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

General: Direct contact with skin: In all cases of doubt, or when symptoms persist, seek medical attention. Rinse immediately with soap and water. Get medical advice if irritation develops.



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Inhala Inges		Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician. Move to fresh air from exposure area. Get medical attention for any breathing difficulty. Consult with a physician. No special protection required.
4.2.	Most important symptoms and	effects, both acute and delayed
Symp	toms and effects:	No data available
<b>4.3.</b> Indica	-	edical attention and special treatment needed No data available
5.	FIREFIGHTING MEASURES	
5.1.	Extinguishing media	
Exting	uishing Media:	Water, dry chemicals, foam and carbon dioxide.
5.2.	Special hazards arising from th	ne substance/mixture
Unusı	al Fire and Explosion Hazards:	None known
5.3.	Advice for firefighters	

# Special Fire Fighting Procedures:Move container from fire area if it can be done without risk.<br/>Avoid inhalation of material or combustion by-products.<br/>Stay upwind and keep out of low area.Protection for fire-fighters:Boots, gloves, goggles.

#### 6. ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel: For emergency responders:	Avoid contact with eyes. Avoid contact with eyes.
	Personal Protective Equipment: - Protective goggles
6.2. Environmental precautions	
Environmental Protection Measures:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system.
6.3. Methods and material for cont	ainment and 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.

#### 6.4. Reference to other sections

References:

Refer to paragraphs 8 and 13 for more information.



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#### 7. HANDLING AND STORAGE

#### 7.1. Precaution for safe handling

Technical measures: Measures: Safe handling advice:	Labeling: Keep out of the reach of children. For industrial use, only as directed. Wash hands after use. Avoid storage near feed or food stuff.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures:	Keep container closed.	
Recommended Storage Conditions:	Store in a cool, dry place. This material must be stored at room temperature (23°C/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.	

#### 7.3. Specific and use(s)

Use(s):

Cosmetic use.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary statements:

Ensure adequate ventilation.

#### 8.1. 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

#### 8.2. Exposure controls/ 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.



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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Color:	Amber liquid 12 Gardner Maximum
Odor:	Characteristic
Non-Volatile Matter (1g-1hr-105°C):	20.0% Minimum
pH (Direct):	6.0 - 8.0
Heavy Metals: Lead: Arsenic: Cadmium:	< 20 ppm < 10 ppm < 2 ppm < 1 ppm
Microbial Content: Yeast & Mold: Gram Negative Bacteria:	< 100 CFU/g; No pathogens < 100 CFU/g 0 CFU/g
Specific Gravity:	1.05
Vapor density: Boiling Point: Freezing Point: Melting point:	Not applicable 100°C 0°C Not applicable
Flash point: Oxidizing properties:	> 200°F Non oxidizing material according to EC criteria.
Solubility: In water: In organic solvents: Log P:	Soluble Not determined Not determined
<b>9.2. Other information</b> Information:	N/A

#### **10. STABILITY AND REACTIVITY**

#### 10.1. Reactivity

Reactivity:

None known

#### 10.2. Chemical stability

Stability:

Stable under ordinary conditions of use and storage up to one year then



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re-test to full product specifications to extend shelf life.

10.3. Possibility of hazardous reactions		
Hazardous reaction:	None known	
10.4. Conditions to avoid		
Conditions to avoid:	No dangerous reactions known under use of normal conditions. Avoid extreme heat.	
10.5. Incompatible materials		
Incompatibility:	No dangerous reaction known with common products.	
10.6. Hazardous decomposition products		
Hazardous decomposition:	None known	

#### TOXICOLOGICAL INFORMATION 11.

#### 11.1. Information on toxicological effects

TITI Information on toxicological e		
Ingestion: Dermal: Ocular: Inhalation:	Not Determined Non-Irritant (Dermal Irritection Model) Non-Irritant (Ocular Irritection Model) Not Determined	
Acute toxicity data: Sensitization:	EC50 (Acute Daphnia): 756.09 mg/L - Not harmful to aquatic organisms 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:		
Carcinogenicity: Mutagenicity: Reproductive toxicity: Neuro-toxicity:	No known effects No known effects No known effects 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:		

his product has not been tested for the following: -Primary cutaneous and corrosive irritation



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-Acute oral toxicity

#### **12. ECOLOGICAL INFORMATION**

<b>12.1. Toxicity</b> Toxicity:	Not determined	
<b>12.2. Persistence and degradability</b> Persistence and degradability:	Readily Biodegradable (86.55% biodegradation after 28 days of testing)	
<b>12.3. Bioaccumulative potential</b> Bioaccumulative potential:	Not determined	
<b>12.4. Mobility</b> Precipitation: Expected behavior of the product:	Ultimate destination of the product: Soil & sediment.	
<b>12.5. Results of PBT and vPvB assessment</b> Results of PBT and vPvB assessment:         Not determined		
<b>12.6. Other adverse effects</b> Other adverse effects:	None known	

#### **13. DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Residues from product	
Prohibition: Destruction/Disposal:	Do not allow the product to be released into the Environment. Dispose of in accordance with relevant local regulations
Contaminated packaging	
Decontamination/cleaning: Destruction/Disposal:	Cleaning is not required prior to disposal.

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

#### **14. TRANSPORT INFORMATION**

#### 14.1. UN number

Number:

None



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<b>14.2. UN proper shipping name</b> Shipping name:	None	
<b>14.3. Transport hazard class(es)</b> Hazard class:	Not classified as dangerous for transport.	
Land (rail/road): Sea: Air:	Material is not restrictive for land transport and is not regulated by ADR/RID Material is not restrictive for sea transport and is not regulated by IMO/IMDG 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.	
<b>14.4. Picking group</b> Picking group:	None	
<b>14.5. Environmental hazards</b> Environmental hazards:	None	
<b>14.6. Special precautions for user</b> Precautions:	None known	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		

Transport in bulk: N/A

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.

#### **15. REGULATORY INFORMATION**

#### 15.1. Safety, health an environmental regulations/legislation specific for the substance/mixture

<b>Labeling:</b> EC regulations:	This product does not need to be labeled in ac or respective national laws	cordance with EC Directives
Further regulations		
United Kingdom:	Handle in accordance with relevant British regulations Environmenta Hazardous to Health Regulations Environmenta Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually)	
Korea regulations:	Industrial safety and hygiene regulation: Hazardous material control regulation: Fire prevention regulation:	No No No



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Germany:	Regulations concerning the classification of hazards fo (WGK – Wassergefährdungsklasse:): - WGK 1 – Low hazard to waters (VwVwS dd 2)	
Other regulations:		
EINECS inventory status:	Hydrolyzed Corn Protein: Hydrolyzed Wheat Protein: Hydrolyzed Soy Protein: Leuconostoc/Radish Root Ferment Filtrate:	309-349-6 309-353-8 271-770-5 N/A
TSCA inventory status:	Exempt	1
AICS inventory status:	Exempt: 100209-41-4 Not Listed: 1686112-10-6 Listed: 100209-45-8 & 68607-88-5	
Canadian (CEPA DSL) inventory status:	Not Listed: Leuconostoc/Radish Root Ferment F Listed as Protein hydrolyzates, corn (Revised IC hydrolyzates, vegetable (DSL) & Protein hydroly	L) & Protein
Japan (MITI list):	Hydrolyzed Corn Protein & Hydrolyzed Wheat Pr Soy Protein & Leuconostoc/Radish Root Fermen	rotein & Hydrolyzed
Korea:	Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein & Leuconostoc/Radish Root Ferment Filtrate** Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein & Leuconostoc/Radish Root Ferment Filtrate	
China inventory status:		
Philippines inventory status:	Exempt: Hydrolyzed Corn Protein (100209-41-4 Not Listed: Leuconostoc/Radish Root Ferment F Listed as Protein hydrolyzates, vegetable & Prot	) ïltrate (1686112-10-6)

\*\*Not listed in 2004 CTFA Dictionary – Registered with Personal Care Products Council

#### **15.2.** Chemical safety assessment

Assessment:

N/A

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

#### **16. OTHER INFORMATION**

Prohibited uses:	For specific uses, food industry, ask the manufacturer for more information.
Last Revision Date:	13/09/2016
Preparation Date:	22/05/2017
MSDS summary of changes	<ul> <li>Added Heavy Metals &amp; Arsenic – Section 9 (Physical &amp; Chemical Properties)</li> <li>Updated Transport Information – Section 14 (Transport Information)</li> <li>Added Mutagenicity Data – Section 11 (Toxicological Information)</li> </ul>



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MSDS summary of changes (Cont.)

- 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)

Further information: This document is in accordance with EC Directive 2001/58/EC and the Regulation(EC) 1907/2006 (REACH) Annex II 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.