

135 Joshua Court, Lincolnton, NC 28092 USA

SECTION 1. IDENTIFICATION

Product Name/Identifier Product Code	FSS Vegan Kerazyme® Protect FSS16883
Recommended Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products'
Restrictions on Use	None
Supplier/Manufacturing Site Address	Formulator Sample Shop, LLC 135 Joshua Court Lincolnton, NC 28092, USA
Telephone No. (24hrs)	1-704-276-7540
Emergency Telephone #	1-704-276-7540 (Mon-Fri: 8:00AM – 5:00PM EST)
SECTION 2. HAZARD(S) IDE	NTIFICATION
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 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.



135 Joshua Court, Lincolnton, NC 28092 USA

By mechanical effect:	No particular hazards.
By hygroscopic 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

Not applicable

Common Chemical Name:	Bambusa Arundinacea Leaf Extract & Trametes Versicolor Extract & Hydrolyzed Corn Protein &
	Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein

Generic name:

Formula:

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

<u>Substance</u>	CAS Numbers	EC Numbers	Percentage
Bambusa Arundinacea Leaf Extract	91771-32-3	294-922-2	20.00%
Trametes Versicolor Extract	N/A	N/A	20.00%
Hydrolyzed Corn Protein	100209-41-4	309-349-6	19.34%
Hydrolyzed Wheat Protein	100209-45-8	309-353-8	19.33%
Hydrolyzed Soy Protein	68607-88-5	271-770-5	19.33%
	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	

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.



135 Joshua Court, Lincolnton, NC 28092 USA

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: Not suitable:	Water, dry chemicals, foam and carbon dioxide 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 N	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: 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.
Storage Technical measures: Recommended Storage Conditions:	Keep container closed. 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.



135 Joshua Court, Lincolnton, NC 28092 USA

Avoid contact with strong oxidizers. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)
Product may be packaged in normal commercial packaging. Recommended - Polypropylene & High Density Polyethylene

Precautionary statements:	Ensure adequate ventilation
Control parameters	
Occupational exposure Limits:	
France: ACGIH: Korea: UK:	Not Determined Not Determined Not Determined Not Determined
Surveillance procedures: Engineering measures: Personal Protective Equipment:	Not Determined Not Determined
Respiratory protection: Hand protection: Eye protection: Collective emergency equipment: Skin and Body Protection: Hygiene measures: Measures related to the Environment:	Local exhaust Protective gloves made of rubber or neoprene. Safety glasses. Eye fountain. Suitable protective clothing Handle in accordance with good industrial hygiene and safety practice. No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Slightly hazy to hazy liquid
Color (Gardner):	10 Maximum
Odor:	Characteristic
pH:	3.0 - 6.0
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:	Not determined



135 Joshua Court, Lincolnton, NC 28092 USA

Vapor density:	Not applicable
Boiling Point:	Not determined
Freezing Point:	Not determined
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
-	Not determined
Log P:	
SECTION 10. STABILITY AND REAC	TIVITY
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 INF	ORMATION
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:	No known effects
Subacute to chronic toxicity:	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 th
	General EU Classification Guidelines for Preparations as issued in the latest version.
Specific effects:	
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Carcinogenicity:

No known effects



135 Joshua Court, Lincolnton, NC 28092 USA

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 th -Primary cutaneous and corrosive irrita -Acute oral toxicity	
SECTION 12. ECOLOGICAL INFOR	MATION
Ecotoxicity	
Effects on the aquatic environment:	EC_{10} (Freshwater Alga): 145.82 mg/L - Not harmful to aquatic organisms EC_{20} (Freshwater Alga): 236.10 mg/L - Not harmful to aquatic organisms
Biodegradability:	
Persistence:	Readily Biodegradable (91.8% 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 CONSIDE	RATIONS
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: Destruction/Disposal:	Cleaning is not required prior to disposal.
Note: Take all necessary precautions w	hen disposing of this product according to local regulations.
SECTION 14. TRANSPORT INFOR	
SECTION 14. INANSPORT INFORT	

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

Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company, however, cannot assume any liability or risk involved in the use of its chemical products since the conditions of use are beyond our control. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. We make no warranty of any kind, expressed or implied, other than that the material conforms to the applicable standard specification.



135 Joshua Court, Lincolnton, NC 28092 USA

Air:	Material is not restrictive for air transport and is not regulated by ICAO/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 i Directives or respective national laws	in accordar	nce with EC
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: Hazardous material control regulation: Fire prevention regulation:	No No No	
Other regulations:			
EINECS inventory status:	Bambusa Arundinacea Leaf Extract: Trametes Versicolor Extract: Hydrolyzed Corn Protein: Hydrolyzed Wheat Protein: Hydrolyzed Soy Protein: Leuconostoc/Radish Root Ferment Filtr	rate:	294-922-2 N/A 309-349-6 309-353-8 271-770-5 N/A (or) 283-918-6 (or) 295-635-5
TSCA inventory status: AICS inventory status:	Exempt Exempt: Exempt: 91771-32-3 & Trametes Versicolor Extract & 100209-41-4 Not Listed: 1686112-10-6 Listed: 100209-45-8 & 68607-88-5 & 84775-94-0 (or) 9015-54-7 Exempt: Bambusa Arundinacea Leaf Extract (91771-32-3) & Trametes Versicolor Extract Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6) Listed as Protein hydrolyzates, corn (Revised ICL) & Protein hydrolyzates, vegetable (DSL) & Protein hydrolyzates, soya (DSL) & Radish, ext. (Revised ICL) (or) Protein Hydrolyzates (DSL)		
Canadian (CEPA DSL) inventory status:			
Japan (MITI list):	Bambusa Arundinacea Leaf Extract & T Protein & Hydrolyzed Wheat Protein & Root Ferment Filtrate		



135 Joshua Court, Lincolnton, NC 28092 USA

Korea:	Bambusa Arundinacea Leaf Extract** & Trametes Versicolor Extract** & Hydrolyzed Corn
	Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein & Leuconostoc/Radish
	Root Ferment Filtrate**
China inventory status:	Bambusa Arundinacea Leaf Extract* & Trametes Versicolor Extract & Hydrolyzed Corn
	Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein & Leuconostoc/Radish
	Root Ferment Filtrate
Philippines inventory status:	Exempt: Bambusa Arundinacea Leaf Extract (91771-32-3) & Trametes Versicolor Extract &
	Hydrolyzed Corn Protein (100204-41-4)
	Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6 (or) 84775-94-0)
	Listed as Protien hydrolyzates, vegetable & Protein hydrolyzates, soya & Protein
	Hydrolyzates

*Listed on 2010 INCI Standard Chinese Name Directory

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

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

8

Prohibited uses:	For specific uses, food industry, ask the manufacturer for more information.
Last Revision Date:	12/13/2021
Preparation Date:	09/10/2024
MSDS summary of changes	 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), Added Acute Toxicity Data – Section 11 (Toxicological Information) & Added Biodegradability Data – Section 12 (Ecological Information) Updated CAS/EINEC#'s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) Updated CAS/EINEC#'s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) Updated CAS/EINEC#'s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) Updated Precautionary Statement – Section 2 (Hazards Information), Updated Recommend Storage Conditions – Section 7 (Handling & Storage), Added Irritation, Sensitization & Mutagenicity Data – Section 12 (Ecological Information) Updated Europe Basis for Classification – Section 2 (Hazards Identification) & Updated INCI Name Order – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures) Updated Recommended Use – Section 1 (Identification)

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



Safety Data Sheet 135 Joshua Court, Lincolnton, NC 28092 USA

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.