

FSS Exfoliation Enzyme	PF	Page:	1/9
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SECTION 1. IDENTIFIC	ATION		
Product Name/Identifier Product Code	FSS Exfoliation Enzyme PF FSS20396PF		
Recommended Use Restrictions on Use	Topical Cosmetic Use None		
Supplier/Manufacturing Site Address	Formulator Sample Shop 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) 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 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



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Other hazards which do not result in classification:

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

Hydrolyzed Opuntia Ficus-Indica Flower Extract

Generic name:

Chemical Family: Extract

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

<u>Substance</u>	CAS Numbers	EC Numbers	Percentage
Hydrolyzed Opuntia Ficus-Indica Flower Extract	90082-21-6	290-109-1	98.00%
Leuconostoc/Radish Root Ferment Filtrate	1686112-10-6 (or) 84775-94-0	N/A (or) 283-918-6	2.00%

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.



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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 e	explosion hazard
Extinguishing media:		
Suitable:	Water, dry chemicals, foam and	carbon dioxide
Not suitable:	None known	
Fire fighting:	Move container from fire area if i Avoid inhalation of material or cc Stay upwind and keep out of low	ombustion by-products.
Protection for fire-fighters:	Boots, gloves, goggles.	
SECTION 6. ACCIDENTAL R	ELEASE MEASURES	
Personal precautions:	Avoid contact with eyes.	
	Personal Protective Equipment: -Protective goggles	
Environmental precautions:	Prevent entry into sewers and wa contaminate ground water system	aterways. Do not allow material to m
Methods for cleaning up:		
Recovery:	Pick up free liquid for recycling o absorbed on an inert material.	r disposal. Residual liquid can be
Cleaning/Decontamination:	Wash non-recoverable remainde	er 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.



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Storage Technical measures: Recommended Storage Conditions:	studies, the optimum storage t 25°C. However, it may be stor such specific temperature con	atures not exceeding 32°C. Based on stability remperature for maximization of shelf life is 23 - ed at temperatures between 16 and 32°C if trol is not available. Do not freeze. Please refer t or cold may have on the specifications of the
Incompatible products:	Avoid contact with strong oxid Refer to the detailed list of inco	izers. ompatible materials (Section 10 Stability/Reactivity)
Packaging: Packaging materials:	Product may be packaged in r Recommended - Polypropylen	normal commercial packaging. ne & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements:	Ensure adequate ventilation
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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: Color: Clear to slightly hazy liquid Amber to brown



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Odor:	Characteristic		
NVM (1g-105°C-1hr):	2.8 – 4.2%		
pH (Direct):	4.0 – 5.0		
Total Sugar:	1.3 – 2.0%		
Uronic Acid:	0.4 – 0.8%		
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:	Not determined		
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	o EC criteria.	
Solubility : In water: In organic solvents: Log P:	Soluble Not determined Not determined		

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.
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Hazardous decomposition products: None known



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SECTION 11. TOXICOLOGIC	AL INFORMATION	
ngestion:	Not Determined	
Dermal:	Not Determined	
Ocular:	Not Determined	
nhalation:	Not Determined	
Acute toxicity data:	Not Determined	
Sensitization:	Non-Primary Sensitizers	
Repeated dose toxicity:	No known effects	
Subacute to chronic toxicity:	Not Determined	
Additional Toxicological Informati		classification according to the calculation assification Guidelines for Preparations as
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 particula conditions of good occupation	ar risk on handling under normal
This product has not been tested for		
-Primary cutaneous and corrosive in		
-Acute oral toxicity		
-Mutagenicity/genotoxicity		
SECTION 12. ECOLOGICAL	INFORMATION	
Ecotoxicity		
Effects on the aquatic environment:		6 mg/L - Not harmful to aquatic organisms 7 mg/L - Not harmful to aquatic organisms
Biodegradability:		

Bioaccumulation:

Octanol / water partition coefficient: Not Determined



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Mobility: Precipitation: Expected behavior of the product:	Ultimate destination of the product:	Soil & sediment.
Other Adverse Effects:	None known	
SECTION 13. DISPOSAL CO	NSIDERATIONS	
Residues from product		
Prohibition: Destruction/Disposal:	Do not allow the product to be rele Dispose of in accordance with rele	
Contaminated packaging		
Decontamination/cleaning: Destruction/Disposal:	Cleaning is not required prior to di	isposal.
Note: Take all necessary precaution	ns when disposing of this product acco	ording to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: UN Shipping Name: Transport Hazard Class:	None None 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 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 in accordance with EC Directives or respective national laws



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Further regulations		
United Kingdom:	Handle in accordance with releva substance Hazardous to Health R Hygiene Guidance: EH40 Workplace Exposure Limits (revis	Regulations Environmental
Korea regulations:	Industrial safety and hygiene regu Hazardous material control regula Fire prevention regulation:	
Other regulations:		
EINECS inventory status:	Hydrolyzed Opuntia Ficus Leuconostoc/Radish Roo	s-Indica Flower Extract: 290-109-1 ot Ferment Filtrate: N/A (or) 283-918-6
TSCA inventory status: AICS inventory status:	Exempt Exempt: 90082-21-6 Not Listed: 1686112-10-6 Listed: 84775-94-0	
Canadian (CEPA DSL) inventory state	us: Exempt: Hydrolyzed Opu Not Listed: Leuconostoc/	Intia Ficus-Indica Flower Extract (90082-21-6 Radish Root Ferment Filtrate (1686112-10-6)
Japan (MITI list):	Listed as: Radish, ext. (R Hydrolyzed Opuntia Ficus Root Ferment Filtrate	s-Indica Flower Extract & Leuconostoc/Radis
Korea:		s-Indica Flower Extract** & Leuconostoc/Rad
China inventory status:		s-Indica Flower Extract & Leuconostoc/Radisl
Philippines inventory status:		Intia Ficus-Indica Flower Extract (90082-21-6 Radish Root Ferment Filtrate (1686112-10-6

*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

Prohibited uses:	For specific uses, food industry, ask the manufacturer for more information.
Last Revision Date:	07/25/2016
Preparation Date:	07/24/2020



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 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) Updated Europe Basis for Classification & Precautionary Statement – Section 2 (Hazards Identification), Updated Recommended Storage Conditions – Section 7 (Handling & Storage), Updated Acute Toxicity Data – Section 11 (Toxicological Information) & Added Ecotoxicity Data – Section 12 (Ecological Information) 	MSDS summary of changes	 & Section 15 (Regulatory Informa Microbial Content – Section 9 (Pf Updated Europe Basis for Classi 2 (Hazards Identification), Update Section 7 (Handling & Storage), I (Toxicological Information) & Add 	ation) & Added Lead & Cadmium & Updated hysical & Chemical Properties) fication & Precautionary Statement – Section ed Recommended Storage Conditions – Updated Acute Toxicity Data – Section 11

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.