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FSS Fruit Enzyme Complex PF		Page: 1/10	
Date: 07 / 08 / 2021	Version: 9	Cancels and replaces version: 8	
SECTION 1. IDENTIFIC	ATION		
Product Name/Identifier Product Code	FSS Fruit Enzyme Complex PF FSS10530PF		
Recommended Use Restrictions on Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products' 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) IDENTIFICATION		
Classification:			
GHS / CLP Basis for Classification:		classification and labeling is required according to GF onal implementation (United Nations version 2011)	
USA OSHA Regulatory Status:	This material is non-hazar Communication Standard (2	dous as defined by the American OSHA Hazard 29 CFR 1910.1200).	

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 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

Common Chemical Name:Averrhoa Carambola Fruit Extract & Passiflora Incarnata Fruit Extract &
Actinidia Chinensis (Kiwi) Fruit Extract & Garcinia Mangostana Fruit Extract
& Ananas Sativus (Pineapple) Fruit Extract & Punica Granatum Extract &
Litchi Chinensis Fruit Extract & Zizyphus Jujuba Fruit Extract & Psidium
Guajava Fruit Extract

Generic name:

Chemical Family: Extracts

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

<u>Substance</u>	CAS Numbers	EC Numbers	Percentage
Averrhoa Carambola Fruit Extract	97675-54-2	307-626-6	10.889%
Passiflora Incarnata Fruit Extract	72968-47-9	277-142-7	10.889%
Actinidia Chinensis (Kiwi) Fruit Extract	92456-63-8	296-241-6	10.889%
Garcinia Mangostana Fruit Extract	90045-25-3	289-884-9	10.889%
Ananas Sativus (Pineapple) Fruit Extract	999999-99-4	310-127-6	10.889%
Punica Granatum Extract	84961-57-9	284-646-0	10.889%
Litchi Chinensis Fruit Extract	91722-81-5	294-483-7	10.889%
Zizyphus Jujuba Fruit Extract	90045-99-1	289-966-4	10.889%
Psidium Guajava Fruit Extract	90045-46-8	289-907-2	10.888%
Leveeneetee/Dedich Deet Fermeert Filtrete	1686112-10-6 (or)	N/A (or)	2 000/
Leuconostoc/Radish Root Ferment Filtrate	84775-94-0	283-918-6	2.00%

Formula:

Not applicable



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SECTION 4. FIRST-AID MEAS	SURES	
General:	In all cases of doubt, or when	symptoms persist, seek medical attention.
Inhalation:	Move to fresh air from exposu breathing difficulty.	ure area. Get medical attention for any
Skin contact:	Rinse with soap and water.	Get medical advice if irritation develops.
Eye contact:	Immediately rinse with plenty keeping the eyes wide open.	of water for at least 15 minutes, while Consult with a physician.
Ingestion:	Consult with a physician.	
Protection of first-aiders:	No special protection required	d.
SECTION 5. FIRE-FIGHTING	MEASURES	
Fire and explosion hazards:	Not considered to be a fire an	nd explosion hazard
Extinguishing media:		
Suitable: Not suitable:	Water, dry chemicals, foam a None known	nd carbon dioxide
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 RE	LEASE MEASURES	
Personal precautions:	Avoid contact with eyes. Personal Protective Equipme -Protective goggles	nt:
Environmental precautions:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system	
Methods for cleaning up:		
Recovery:		ng or disposal. Residual liquid can be I. Sweep or vacuum up any powder and place in iner, avoiding dust formation.
Cleaning/Decontamination:	Wash non-recoverable remainder with water.	
Disposal:	For disposal of residues refer to sections 8 & 13.	



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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.	
Incompatible products:	Avoid contact with strong oxidizers. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivit	
Packaging: Packaging materials:	Product may be packaged in normal commercial packaging. Recommended - Polypropylene & High Density Polyethylene	
SECTION 8. EXPOSURE CON	TROLS / PERSONAL PRO	DTECTION
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:	Not Determined Not Determined	
Personal Protective Equipment:		
Respiratory protection: Hand protection: Eye protection: Collective emergency equipment: Skin and Body Protection: Hygiene measures:	Local exhaust Protective gloves made of rubb Safety glasses. Eye fountain. Suitable protective clothing	per or neoprene.

Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No particular measures.

Hygiene measures:



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Clear to slightly hazy viscous liquid			
Odor:	Characteristic			
pH (Direct):	3.5 – 7.5			
NVM (1g, 105°C, 1hr):	15.0 – 20.0%			
Ash (800°C):	0.40% Maximum			
Ninhydrin:	Positive			
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 Not determined Not determined Not applicable			
Flash point: Oxidizing properties:	> 200°F Non oxidizing material according t	o EC criteria.		
Solubility : In water: In organic solvents: Log P:	Soluble Not determined Not determined			
SECTION 10. STABILITY AND REACTIVITY				
Stability:	Stable under ordinary conditions of re-test to full product specifications		r then	

Hazardous reactions:	None known
Conditions to avoid:	No dangerous reactions known under use of normal conditions. Avoid extreme heat.



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Materials to avoid:	No dangerous reaction know	No dangerous reaction known with common products.	
Hazardous decomposition produc	ts: None known		
SECTION 11. TOXICOLOGIC	AL INFORMATION		
Ingestion:	Not Determined		
Dermal:	Not Determined		
Ocular:	Not Determined		
Inhalation:	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 particu conditions of good occupation	lar risk on handling under normal nal 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:		l4 mg/L - Not harmful to aquatic organisms 26 mg/L - Not harmful to aquatic organisms	
Biodegradability: Persistence:	Readily Biodegradable (89.2%	biodegradation after 28 days of testing)	
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	sposal.
Note: Take all necessary precautions when disposing of this product according to local regulations.		
SECTION 14. TRANSPORT INFORMATION		

UN Number: UN Shipping Name:	None None
Transport 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 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:	Averrhoa Carambola Frui Passiflora Incarnata Fruit Actinidia Chinensis Fruit I Garcinia Mangostana Fru Ananas Sativus Fruit Extr Punica Granatum Extract Litchi Chinensis Fruit Extr Zizyphus Jujuba Fruit Ext Psidium Guajava Fruit Ext Leuconostoc/Radish Roo	t Extract: 277-142-7 Extract: 296-241-6 uit Extract: 289-884-9 ract: 310-127-6 t: 284-646-0 ract: 294-483-7 tract: 289-966-4 xtract: 289-907-2
TSCA inventory status:	Evempt	ot Ferment Filtrate: N/A (or) 283-918-6
AICS inventory status:	(Pineapple) Fruit Extract Not Listed: 1686112-10-6	
Canadian (CEPA DSL) inventory status	s: Exempt: Averrhoa Caram Mangostana Fruit Extract Fruit Extract & Litchi Chin Not Listed: Leuconostoc/I Listed as Passionflower, I Actinidia chinensis, ext. (I ICL) & Jujuba Zizyphus, e pyrifera, ext. (Revised ICI	nbola Fruit Extract (97675-54-2) & Garcinia t (90045-25-3) & Ananas Sativus (Pineapple) nensis Fruit Extract (91722-81-5) & Radish Root Ferment Filtrate (1686112-10-6) Passiflora incarnate, ext. (Revised ICL) & Revised ICL) & Pomegranate, ext. (Revised ext. (Revised ICL) & Guava, Psidium guajava L) & Radish, ext. (Revised ICL)
Japan (MITI list):	Actinidia Chinensis (Kiwi) Extract & Ananas Sativus Extract & Litchi Chinensis	it Extract & Passiflora Incarnata Fruit Extract) Fruit Extract & Garcinia Mangostana Fruit s (Pineapple) Fruit Extract & Punica Granatur s Fruit Extract & Zizyphus Jujuba Fruit Extrac xtract & Leuconostoc/Radish Root Ferment
Korea:	Averrhoa Carambola Frui Actinidia Chinensis (Kiwi) Extract^ & Ananas Sativu Extract & Litchi Chinensis	it Extract & Passiflora Incarnata Fruit Extract) Fruit Extract & Garcinia Mangostana Fruit us (Pineapple) Fruit Extract & Punica Granatu s Fruit Extract & Zizyphus Jujuba Fruit Extrac xtract & Leuconostoc/Radish Root Ferment



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Other regulations (Continued):		
China inventory status:	Listed: Averrhoa Car Extract & Actinidia Cl (Pineapple) Fruit Exti Fruit Extract & Zizyph	Mangostana Fruit Extract ambola Fruit Extract & Passiflora Incarnata Fruit hinensis (Kiwi) Fruit Extract & Ananas Sativus ract & Punica Granatum Extract & Litchi Chinensis nus Jujuba Fruit Extract & Psidium Guajava Fruit pc/Radish Root Ferment Filtrate
Philippines inventory status:	Extract & Leuconostoc/Radish Root Ferment Flittate Exempt: Averrhoa Carambola Fruit Extract (97675-54-2) & Passiflora Incarnata Fruit Extract (72968-47-9) & Garcinia Mangostana Fruit Extract (90045-25-3) & Ananas Sativus (Pineapple) Fruit Extract & Litchi Chinensis Fruit Extract (91722-81-5) & Zizyphus Jujuba Fruit Extract (90045-99-1) & Psidium Guajava Fruit Extract (90045-46-8) Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6 (or) 84775-94-0) Listed as Actinidia Chinensis, ext. & Pomegranate, extract	

^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:	11/06/2020
Preparation Date:	07/08/2021
MSDS summary of changes	 Updated pH Minimum – Section 9 (Physical & Chemical Properties) 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) Updated Precautionary Statement – Section 2 (Hazards Information) & Updated Recommend Storage Conditions – Section 7 (Handling & Storage) Updated Europe Basis for Classification – Section 12 (Ecological Information) Added Ecotoxicity & Biodegradability Data – Section 12 (Ecological Information) Updated Ingredient Composition – Section 3 (Composition / Information on Ingredients) & Updated Recovery Methods for Cleaning Up – Section 6 (Accidental Release Measures)



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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.