

135 Joshua Court, Lincolnton, NC 28092 USA

SECTION 1. IDENTIFICATION

Product Name/Identifier	FSS Vitamin C Liposome PF
Product Code	FSS60103PF
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) 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

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.



135 Joshua Court, Lincolnton, NC 28092 USA

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: Water & Phospholipids & Ascorbyl Palmitate

Generic name:

Chemical Family: Liposomes

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

Substance	CAS Numbers	EC Numbers	<u>Percentage</u>
Water	7732-18-5	231-791-2	85.85%
Phospholipids	8002-43-5	232-307-2	10.90%
Leuconostoc/Radish Root Ferment Filtrate	1686112-10-6 (or)	N/A (or)	2.00%
	84775-94-0	283-918-6	
Ascorbyl Palmitate	137-66-6	205-305-4	1.25%

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: Protection of first-aiders:	Consult with a physician. No special protection required.

SECTION 5. FIRE-FIGHTING MEASURES

Fire and explosion hazards:

Not considered to be a fire and explosion hazard



135 Joshua Court, Lincolnton, NC 28092 USA

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 RELE	ASE 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.

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/Reactivity)Packaging: Packaging materials:Product may be packaged in normal commercial packaging. Recommended - Polypropylene & High Density Polyethylene	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.
Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)Packaging:Product may be packaged in normal commercial packaging.	Technical measures:	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
	Incompatible products:	6



135 Joshua Court, Lincolnton, NC 28092 USA

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements:

Ensure adequate ventilation

Control parameters

Occupational exposure Limits:

Not Determined Not Determined Not Determined
Not Determined Not Determined
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.

Measures related to the Environment:

No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid liposomal dispersion
Odor:	Characteristic
NVM (1g-1hr-105°C):	9.0% Minimum
pH (Direct):	4.5 – 6.5
Heavy Metals: Lead: Arsenic: Cadmium:	< 20 ppm < 10 ppm < 2 ppm < 1 ppm
Microbial Content: Total Yeast & Mold: Gram Negative Bacteria:	< 100 CFU/g; No pathogens < 20 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



135 Joshua Court, Lincolnton, NC 28092 USA

Flash point: Oxidizing properties:	> 200°F Non oxidizing material according to EC criteria.	
Solubility : In water: In organic solvents: Log P:	Dispersible Not determined 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: Dermal: Ocular: Inhalation:	Not Determined Non-Irritant (Dermal Irritection Model) Non-Irritant (Ocular Irritection Model) Not Determined
Acute toxicity data:	Non-Irritant, Non-Primary Sensitizer & Non-Photo Irritant
Sensitization:	Non-Primary Irritant & Non-Primary Sensitizers; 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:	No known effects
Mutagenicity:	No known effects
Reproductive toxicity:	No known effects
Neuro-toxicity:	No known effects

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Effects on the aquatic environment:	EC ₁₀ (Freshwater Alga): 99.25 mg/L - Not harmful to aquatic organisms EC ₂₀ (Freshwater Alga): 194.77 mg/L - Not harmful to aquatic organisms	
Biodegradability:		
Persistence:	Readily Biodegradable (90.4% 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: 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.

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.



135 Joshua Court, Lincolnton, NC 28092 USA

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 Britis substance Hazardous to Health Regulatio Hygiene Guidance: EH40 Workplace Exposure Limits (revised annu	ns Environmental
Korea regulations:	Industrial safety and hygiene regulation:	No
<u> </u>	Hazardous material control regulation:	No
	Fire prevention regulation:	No
Other regulations:		

7

Other regulations:

EINECS inventory status:	Aqua:	231-791-2
	Phospholipids:	232-307-2
	Leuconostoc/Radish Root Ferment Filtrate:	N/A (or) 283-918-6
	Ascorbyl Palmitate:	205-305-4
TSCA inventory status:	Exempt	
AICS inventory status:	Not Listed: 1686112-10-6	
	Listed: 7732-18-5 & 8002-43-5 & 84775-94-0 & 137	7-66-6
Canadian (CEPA DSL) inventory status:	Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6)	
	Listed as Water (DSL) & Lecithin (DSL) & Radish, ext	. (Revised ICL) & @YL-Ascorbic
	acid, 6-hexadecanoate (DSL)	
Japan (MITI list):	Water & Phospholipids & Leuconostoc/Radish Root Ferment Filtrate & Ascorbyl	
	Palmitate	
Korea:	Water & Phospholipids & Leuconostoc/Radish Root	Ferment Filtrate** & Ascorbyl
	Palmitate	
China inventory status:	Water & Phospholipids & Leuconostoc/Radish Root	Ferment Filtrate & Ascorbyl
	Palmitate	
Philippines inventory status:	Not Listed: Leuconostoc/Radish Root Ferment Filtra	ite (1686112-10-6 (or)
	84775-94-0)	
	Listed as Water & Lecithin & L-Ascorbic acid, 6-hexa	adecanoate

**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:	10/12/2021	



135 Joshua Court, Lincolnton, NC 28092 USA

8

05/14/2024

MSDS summary of changes	 Updated Transport Information – Section 14 (Transport Information) Updated CAS/EINEC#'s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) & Added Total Yeast & Mold – Section 9 (Physical & Chemical Properties) Added Lead, Cadmium & Gram Negative Bacteria – Section 9 (Physical & Chemical Properties) Updated CAS/EINEC#'s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) Updated Europe Basis for Classification & Precautionary Statement – Section 2 (Hazards Information), Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures) & Updated Recommend Storage Conditions – Section 7 (Handling & Storage) Updated Recommended Use – Section 1 (Identification), Added Irritation, Acute Toxicity, Sensitization & Mutagenicity Data – Section 11 (Toxicological Information) & Added Ecotoxicity & Biodegradability Data – Section 12 (Ecological Information)
	Added Ecotoxicity & Biodegradability Data – Section 12 (Ecological 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.