

135 Joshua Court, Lincolnton, NC 28092 USA

FSS Retinol Liposome PF		Page: 1/8	
Date: 05 / 04 / 2022	Version: 1	Cancels and replaces version:	
SECTION 1. IDENTIFICA	TION		
Product Name/Identifier Product Code	FSS Retinol Liposome PF FSS60124PF		
Recommended Use	Topical Cosmetic Use		
Restrictions on Use	None		
Supplier Site Address	Formulator Sample Shop, LLC 135 Joshua Court LincoInton, NC 28092, USA		
Telephone No. (24hrs)	1-704-276-7540		
Emergency Telephone #	1-704-276-7540 (Mon-Fri: 8:00AM –	1-704-276-7540 (Mon-Fri: 8:00AM – 5:00PM EST)	
GHS / CLP Basis for Classification:		sification and labeling is required according to GI I implementation (United Nations version 2011)	
Basis for Classification:		sification and labeling is required according to GH I implementation (United Nations version 2011)	
OSHA Regulatory Status:		s as defined by the American OSHA Hazard	
	Communication Standard (29 0		
	-According to present data no o according to Reg. (EC) No 12	CFR 1910.1200). classification and labeling is required 72/2008. Is hazardous to health or environment	
Basis for Classification:	-According to present data no o according to Reg. (EC) No 12 -This product is not classified a	CFR 1910.1200). classification and labeling is required 72/2008. Is hazardous to health or environment	
Basis for Classification: Labeling Elements:	-According to present data no o according to Reg. (EC) No 12 -This product is not classified a	CFR 1910.1200). classification and labeling is required 72/2008. Is hazardous to health or environment	
Europe Basis for Classification: Labeling Elements: Pictograph: Hazard statements/Signal Wo	-According to present data no of according to Reg. (EC) No 127 -This product is not classified a according to the CLP regulation	CFR 1910.1200). classification and labeling is required 72/2008. Is hazardous to health or environment on.	

P410: Protect from sunlight

P411: Store at temperatures not exceeding 32°C



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	Faye. 2/0
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in classification:	
No particular hazards. No particular hazards.	
tion Association) Hazard Ratin	ıg System:
ninor reversible injury possible	
ent:	
/ INFORMATION ON INGR	EDIENTS
Water & Phospholipids & Reti	nol
Liposomes	
ne following components. This se	ection describes all components of the mixtu
CAS Numbers 7732-18-5 123465-35-0 1686112-10-6 (or 84775-94-0 68-26-8 64-02-8	231-791-2 88.90% N/A 8.00%
Not applicable	
JUNES	
	symptoms persist, seek medical attention.
In all cases of doubt, or when	symptoms persist, seek medical attention. re area. Get medical attention for any
	in classification: No particular hazards. No particular hazards. tion Association) Hazard Ratin minor reversible injury possible ent: / INFORMATION ON INGR Water & Phospholipids & Retin Liposomes the following components. This set Mater & Phospholipids & Retin Liposomes the following components. This set (CAS Numbers) 7732-18-5 123465-35-0 1686112-10-6 (or 84775-94-0 68-26-8 64-02-8



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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.		
Protection of first-aiders:	No special protection required.		
SECTION 5. FIRE-FIGHTING	MEASURES		
Fire and explosion hazards:	No hazard is expected under inte	No hazard is expected under intended use and appropriate handling	
Extinguishing media:			
Suitable:	Water, dry chemicals, foam and	Water, dry chemicals, foam and carbon dioxide	
Not suitable:	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 and self-contained breathing apparatus		
SECTION 6. ACCIDENTAL R	ELEASE 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 remainde	Wash non-recoverable remainder 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.	
mation 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		



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Storage		
Technical measures:	Keep container closed.	
Recommended Storage Conditions:	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° 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	
SECTION 8. EXPOSURE CON		DTECTION
Precautionary statements:	Ensure adequate ventilation	
Control parameters		
Occupational exposure Limits:		
France:	Not Determined	
ACGIH:	Not Determined	
Korea: UK:	Not Determined Not Determined	
Surveillance procedures:	Not Determined	
Engineering measures:	Not Determined	
Personal Protective Equipment:		
Respiratory protection:	Local exhaust	
Hand protection:	Protective gloves made of rubl	ber or neoprene.
Eye protection:	Safety glasses.	
Collective emergency equipment:	Eye fountain.	
Skin and Rody Protection:	Suitable protective clothing	

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Suitable protective clothing

Measures related to the Environment: No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Skin and Body Protection:

Liquid liposomal dispersion

Odor:

Characteristic



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Non-Volatile Matter (1g/1hr @105°	2 C): 7.0% Minimum		
pH (Direct):	5.0 – 7.0		
Particle Size:	300 nm Maximum		
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		
Vapor density:	Not applicable		
Boiling Point:	100°C		
Freezing Point:	0°C		
Melting point:	Not applicable		
Flash point:	> 200°F		
Oxidizing properties:	Non oxidizing material according to EC criteria.		
Solubility:			
In water:	Dispersible		
In organic solvents:	Not determined		
Log P:	Not determined		
SECTION 10. STABILITY AN	D 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 produc	rts: None known		



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SECTION 11. TOXICOLOGIC	AL 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 contac dermatitis (In Chemico Skin Sensitization Direct Peptide Reactivity Assay & I 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 Informat		classification according to the calculation ssification Guidelines for Preparations as
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 -Primary cutaneous and corrosive in -Acute oral toxicity		

Biodegradability:

Persistence:

Readily Biodegradable (87.55% biodegradation after 28 days of testing)

EC₂₀ (Freshwater Alga): 284.32 mg/L - Not harmful to aquatic organisms



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Bioaccumulation: Octanol / water partition coefficient:	Not Determined		
Mobility: Precipitation: Expected behavior of the product:	Ultimate destination of the produ	ct: 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	o 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.



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SECTION 15. REGULATORY INFORMATION			
Labeling: EC regulations:	This product does not need to be labe Directives or respective national laws	ed in accordance with EC	
Further regulations			
United Kingdom:	Handle in accordance with relevant Br substance Hazardous to Health Regul Hygiene Guidance: EH40 Workplace Exposure Limits (revised a	ations Environmental	
Korea regulations:	Industrial safety and hygiene regulatio Hazardous material control regulation: Fire prevention regulation:		

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: N/A

Preparation Date: 05/04/2022

MSDS summary of changes No deletion, addition or revision to date

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.