

135 Joshua Court, Lincolnton, NC 28092 USA

FSS Astaxanthin Extract SF

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SECTION 1. IDENTIFICATION

Product Name/Identifier Product Code	FSS Astaxanthin Extract SF FSS11708
Recommended Use	Topical Cosmetic Use
Restrictions on Use	None
Supplier/Manufacturing Site Address	Formulator Sample Shop 135 Joshua Court LincoInton, NC 28092, USA

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 W	/ord: 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:

Water & Haematococcus Pluvialis 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
Water	7732-18-5	231-791-2	88.00%
Haematococcus Pluvialis Extract	999999-99-4	310-127-6	10.00%
Lactobacillus Ferment	1686112-36-6 (or) 68333-16-4	N/A (or) N/A	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 expl	osion hazard
Extinguishing media:		
Suitable:	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.	
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 di absorbed on an inert material. Swee a clearly labeled waste container, av	ep or vacuum up any powder and place ir
Cleaning/Decontamination:	Wash non-recoverable remainder w	ith water.
Disposal:	For disposal of residues refer to sec	tions 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.

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Storage Technical measures: Recommended Storage Conditions:	the optimum storage temperate However, it may be stored at te temperature control is not avai	atures not exceeding 32°C. Based on stability studies, ure for maximization of shelf life is 23 - 25°C. emperatures between 16 and 32°C if such specific lable. Do not freeze. Please refer to stability data for 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:	Product may be packaged in normal commercial packaging.
Packaging materials:	Recommended - Polypropylene & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statem	ents:	Ensure adequate ventilation
Precautionary statem	ents:	Ensure adequate ventilation

Control parameters

Engineering measures:

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Occupational exposure Limits:

France:	Not Determined
ACGIH:	Not Determined
Korea:	Not Determined
UK:	Not Determined
Surveillance procedures:	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:

Odor:

Characteristic

Not Determined

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Slightly hazy to hazy liquid

Pale yellow to orange/red



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pH (Direct):	4.0 - 8.0	
Refractive Index (25°C):	1.320 – 1.360	
NVM (1g-1hr-105°C):	10.0% Maximum	
UV Absorption:	450 – 500 nm	
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 EC criteria.
Solubility : In water: In organic solvents: Log P:	Soluble Not determined Not determined	
SECTION 10. STABILITY AN	D REACTIVITY	
Stability:	Stable under ordinary conditions or re-test to full product specification	of use and storage up to one year then is to extend shelf life
Hazardous reactions:	None known	
Conditions to avoid:	No dangerous reactions known ur	nder use of normal conditions.

Materials to avoid: No dangerous reaction known with common products.

Avoid extreme heat.

Hazardous decomposition products: None known



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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: Sensitization: Repeated dose toxicity: Subacute to chronic toxicity:	Non-Irritant Non-Primary Sensitizers No known effects Not Determined	
Additional Toxicological Information	on: 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: 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 the following: -Primary cutaneous and corrosive irritation -Acute oral toxicity -Mutagenicity/genotoxicity		
SECTION 12. ECOLOGICAL INFORMATION		
Ecotoxicity Effects on the aquatic environment:	Not Determined	
Biodegradability: Persistence:	Not Determined	
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	



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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.

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 British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually)	
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Safety Data Sheet

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Korea regulations:	Industrial safety and hygiene regulation: Hazardous material control regulation: Fire prevention regulation:	No No No
Other regulations:		
EINECS inventory status:	Aqua: Haematococcus Pluvialis Extrac Lactobacillus Ferment:	231-791-2 t: 310-127-6 N/A (or) N/A
TSCA inventory status: AICS inventory status:	Exempt Exempt: Haematococcus Pluvial Not Listed: 1686112-36-6 Listed: 7732-18-5 & 68333-16-4	
Canadian (CEPA DSL) inventory statu	s: Exempt: Haematococcus Pluvial Not Listed: Lactobacillus Fermer Listed as Water (DSL) & Lactoba	nt (1686112-36-6)
Japan (MITI list): Korea: China inventory status: Philippines inventory status:	Water & Haematococcus Pluvialis Extract & Lactobacillus Ferment Water & Haematococcus Pluvialis Extract^ & Lactobacillus Ferment Water & Haematococcus Pluvialis Extract & Lactobacillus Ferment Exempt: Haematococcus Pluvialis Extract Not Listed: Lactobacillus Ferment (1686112-36-6 (or) 68333-16-4) Listed: Water	

^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:	11/26/2019
Preparation Date:	10/05/2021
MSDS summary of changes	 Added UV Absorption Specification – Section 9 (Physical & Chemical Properties) Updated Precautionary Statement – Section 2 (Hazards Information) & Updated Recommend Storage Conditions – Section 7 (Handling & Storage) Updated Europe Basis for Classification – Section 2 (Hazards Information), Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures) & Added Irritation & Acute Toxicity Data – Section 11 (Toxicological Information)



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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.