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SECTION 1. IDENTIFIC	ATION		
Product Name/Identifier Product Code	FSS SOD Liposome PF FSS60101PF		
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)	1-704-276-7099		
Emergency Telephone #	1-704-276-7099 (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:

Water & Phospholipids & Superoxide Dismutase

Generic name:

Chemical Family: Mixture

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

Substance	CAS Numbers	EC Numbers	Percentage
Water	7732-18-5	231-791-2	89.00%
Phospholipids	8002-43-5	232-307-2	8.00%
Leuconostoc/Radish Root Ferment Fil	1686112-10-6 (or)	N/A (or)	2.00%
	84775-94-0	283-918-6	2.0070
Superoxide Dismutase	9054-89-1	232-943-0	1.00%
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.



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Eye contact:	Immediately rinse with plenty of keeping the eyes wide open. Co	water for at least 15 minutes, while onsult 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:	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 co 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.	or 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:	the optimum storage tempera However, it may be stored at temperature control is not ava	ratures not exceeding 32°C. Based on stability studies, ature for maximization of shelf life is 23 - 25°C. temperatures between 16 and 32°C if such specific ailable. Do not freeze. Please refer to stability data for e on the specifications of the product.
Incompatible products:	Avoid contact with strong oxid Refer to the detailed list of ind	dizers. compatible materials (Section 10 Stability/Reactivity)
Packaging: Packaging materials:		normal commercial packaging. ne & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements:	Ensure adequate ventilation
Control parameters	
Occupational exposure Limits:	
France: ACGIH: Korea: UK: Surveillance procedures:	Not Determined Not Determined Not Determined Not Determined
Engineering measures: Personal Protective Equipment:	Not Determined
Respiratory protection: Hand protection: Eye protection: Collective emergency equipment: Skin and Body Protection: Hygiene measures:	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: Color:

Liquid liposomal dispersion Tan

Odor:

Characteristic





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SOD Content as Biocell SOD (Fridovitch Assay): 0.95% Minimu	m	
Particle Size:	200 nm Maximum		
oH (Direct):	4.0 - 6.0		
NVM (1g-1hr-105°C):	4.5% Minimum		
Heavy Metals: Lead: Arsenic: Cadmium:	10 ppm Maximum 10 ppm Maximum 2 ppm Maximum 1 ppm Maximum		
Microbial Content: Fotal Yeast & Mold: Gram Negative Bacteria :	< 100 CFU/g; No pathogens < 20 CFU/g 0 CFU/g		
Specific Gravity:	Not determined		
/apor density: Boiling Point: Freezing Point: Melting point:	Not applicable 100°C 0°C Not applicable		
Flash point: Dxidizing properties:	> 200°F Non oxidizing material accordi	ing to EC criteria.	
Solubility : n water: n organic solvents: ∟og P:	Dispersible 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.
Hazardous decomposition products: None known	



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SECTION 11. TOXICOLOGICAL INFORMATION	
Ingestion: Dermal: Ocular: Inhalation:	Not Determined Not Determined Not Determined Not Determined
Acute toxicity data: Sensitization:	Not Determined Non-Primary Sensitizers
Repeated dose toxicity: Subacute to chronic toxicity:	No known effects Not Determined
Additional Toxicological Information	n: 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 th	o following:

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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:	EC_{10} (Freshwater Alga): 119.46 mg/L - Not harmful to aquatic organisms EC_{20} (Freshwater Alga): 208.61 mg/L - Not harmful to aquatic organisms
Biodegradability: Persistence:	Readily Biodegradable (90.4% biodegradation after 28 days of testing)
Bioaccumulation:	Not Determined

Octanol / water partition coefficient: Not Determined

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.

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Mobility: Precipitation: Expected behavior of the product: Other Adverse Effects:	Ultimate destination of the produc	ct: Soil & sediment.		
SECTION 13. DISPOSAL CONSIDERATIONS				
Residues from product				
Prohibition: Destruction/Disposal:	Do not allow the product to be re Dispose of in accordance with re			
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



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Further regulations			
United Kingdom:	Handle in accordance with relevant Bri substance Hazardous to Health Regula Hygiene Guidance: EH40 Workplace Exposure Limits (revised ar	ations Environmental	
Korea regulations:	Industrial safety and hygiene regulatior Hazardous material control regulation: Fire prevention regulation:	n: No No No	
Other regulations:			
EINECS inventory status:	Aqua: Phospholipids: Leuconostoc/Radish Root Ferr Superoxide Dismutase:	231-791 232-307 nent Filtrate: N/A (or) 232-943	-2 283-918-6
TSCA inventory status: AICS inventory status:	Exempt Not Listed: 1686112-10-6 Listed: 7732-18-5 & 8002-43-5		-
Canadian (CEPA DSL) inventory stat		h Root Ferment Filtrate (10	686112-10-6)
Japan (MITI list):	Water & Phospholipids & Leuc Superoxide Dismutase	onostoc/Radish Root Ferm	ent Filtrate &
Korea:	Water & Phospholipids & Leuc Superoxide Dismutase	onostoc/Radish Root Ferm	ent Filtrate** &
China inventory status:	Water & Phospholipids & Leuc Superoxide Dismutase	onostoc/Radish Root Ferm	ent Filtrate &
Philippines inventory status:		Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6 (or) 84775-94-0) & Superoxide Dismutase (9054-89-1)	

*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:	01/22/2018
Preparation Date:	10/02/2020



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MSDS summary of changes	 Updated CAS/EINEC#'s – S Ingredients) & Section 15 (R Mold – Section 9 (Physical & Added Lead, Cadmium & Gr Chemical Properties) Updated CAS/EINEC#'s – S Ingredients) & Section 15 (R Updated Europe Basis for C (Hazards Information), Upda 	ram Negative Bacteria – Section 9 (Physical & Section 3 (Composition / Information on

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.