

135 Joshua Court, Lincolnton, NC 28092 USA

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Date: 04 / 08 / 2022	Version: 5	Cancels and replaces version: 4
SECTION 1. IDENTIFIC	ATION	
Product Name/Identifier Product Code	FSS Red Clover Bioferment PF FSS20080PF	
Recommended Use Restrictions on Use	Ingredients/Raw materials used in the m Refer to the detailed list of labeling/restr	nanufacturing of Cosmetic Products' ictions (Section 15 Regulatory Information)
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 – 5:0	0PM EST)
SECTION 2. HAZARD(S) IDENTIFICATION		

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:

Lactobacillus/Clover Flower Ferment Extract & Populus Tremuloides Bark Extract

Generic name:

Chemical Family: Extract

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

Water	7732-18-5	004 704 0	
	1132-10-0	231-791-2	78.00%
Lactobacillus/Clover Flower Ferment Extract	85085-25-2	285-356-7	20.00%
Populus Tremuloides Bark Extract	90083-05-9	290-199-2	2.00%

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: Protection of first-aiders:	Consult with a physician. No special protection required.	
SECTION 5. FIRE-FIGHTING		
Fire and explosion hazards:	Not considered to be a fire and explosion hazard	
Extinguishing media:		
Suitable: Not suitable:	Water, dry chemicals, foam and carb None known	oon dioxide
Fire fighting:	Move container from fire area if it can Avoid inhalation of material or combu Stay upwind and keep out of low are	ustion by-products.
Protection for fire-fighters:	Boots, gloves, goggles.	
SECTION 6. ACCIDENTAL RE	LEASE 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 dis absorbed on an inert material. Swee a clearly labeled waste container, av	p or vacuum up any powder and place in
Cleaning/Decontamination:	Wash non-recoverable remainder wi	th water.
Disposal:	For disposal of residues refer to sect	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:	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 oxi Refer to the detailed list of in	idizers. compatible materials (Section 10 Stability/Reactivity)
Packaging: Packaging materials:		normal commercial packaging. ene & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements:	Ensure adequate ventilation
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Control parameters

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Occupational exposure Limits:

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

Engineering measures:

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:

Opaque liquid Characteristic

Not Determined

Odor:



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рН (@ 25°С):	5.5 – 7.5	
Non-Volatile Matter (1g-1hr-105°C):	5.0% Minimum	
Specific Gravity (25°C):	1.000 – 1.050	
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	
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 AND	REACTIVITY	
Stability:	Stable under ordinary conditions re-test to full product specification	of use and storage up to one year then ns to extend shelf life
Hazardous reactions:	None known	
Conditions to avoid:	No dangerous reactions known u Avoid extreme heat.	under use of normal conditions.
Materials to avoid:	No dangerous reaction known w	ith common products.
Hazardous decomposition products	: None known	
SECTION 11. TOXICOLOGICA	L INFORMATION	
Ingestion:	Not Determined	

 Dermal:
 Non-Irritant (Dermal Irritection Model)

 Ocular:
 Non-Irritant (Ocular Irritection Model)

 Inhalation:
 Not Determined



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Acute toxicity data: Sensitization: Repeated dose toxicity: Subacute to chronic toxicity:	Non-Irritant Non-Primary Sensitizers No known effects Not Determined	
Additional Toxicological Informati		classification according to the calculation ssification Guidelines for Preparations as
Specific effects:		
Carcinogenicity: Mutagenicity:	No known effects No known effects No known effects	
Reproductive toxicity: Neuro-toxicity:	No known effects	
Neuro-toxicity:		ar risk on handling under normal al hygiene practice.
Neuro-toxicity: For more information:	Does not present any particula conditions of good occupationa the following:	
Neuro-toxicity: For more information: This product has not been tested for -Primary cutaneous and corrosive in -Acute oral toxicity -Mutagenicity/genotoxicity	Does not present any particula conditions of good occupationa the following: ritation	
Neuro-toxicity: For more information: This product has not been tested for -Primary cutaneous and corrosive in -Acute oral toxicity	Does not present any particula conditions of good occupations the following: ritation INFORMATION EC10 (Freshwater Alga): 128.11	
Neuro-toxicity: For more information: This product has not been tested for -Primary cutaneous and corrosive in -Acute oral toxicity -Mutagenicity/genotoxicity SECTION 12. ECOLOGICAL	Does not present any particula conditions of good occupations the following: ritation INFORMATION EC10 (Freshwater Alga): 128.1 ⁻⁷ EC20 (Freshwater Alga): 223.65	al hygiene practice.
Neuro-toxicity: For more information: This product has not been tested for -Primary cutaneous and corrosive in -Acute oral toxicity -Mutagenicity/genotoxicity SECTION 12. ECOLOGICAL Ecotoxicity Effects on the aquatic environment: Biodegradability:	Does not present any particula conditions of good occupations the following: ritation INFORMATION EC10 (Freshwater Alga): 128.17 EC20 (Freshwater Alga): 223.69 Readily Biodegradable (91.1% b	al hygiene practice. I mg/L - Not harmful to aquatic organisms 9 mg/L - Not harmful to aquatic organisms
Neuro-toxicity: For more information: This product has not been tested for -Primary cutaneous and corrosive in -Acute oral toxicity -Mutagenicity/genotoxicity SECTION 12. ECOLOGICAL Ecotoxicity Effects on the aquatic environment: Biodegradability: Persistence: Bioaccumulation:	Does not present any particula conditions of good occupations the following: ritation INFORMATION EC10 (Freshwater Alga): 128.17 EC20 (Freshwater Alga): 223.69 Readily Biodegradable (91.1% b	al hygiene practice. I mg/L - Not harmful to aquatic organisms) mg/L - Not harmful to aquatic organisms iodegradation after 28 days of testing)

Residues from product

Prohibition:Do not allow the product to be released into the Environment.Destruction/Disposal:Dispose of in accordance with relevant local regulations



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Contaminated packaging		
Decontamination/cleaning: Destruction/Disposal:	Cleaning is not required prior to disposal.	
Note: Take all necessary precautions	when disposing of this product ac	cording to local regulations.
SECTION 14. TRANSPORT IN	FORMATION	
UN Number: UN Shipping Name:	None None	
Transport Hazard Class:	Not classified as dangerous for t	transport
Land (rail/road): Sea: Air:	Material is not restrictive for sea	I transport and is not regulated by ADR/RID transport and is not regulated by IMO/IMDG ransport and is not regulated by ICAO/IATA
Marine Pollutant:	No	
Transport/Additional Information:	Not regulated for US DOT Trans This material is not dangerous o	
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/Restrictions:

EC regulations: Not to be used for children under three years of age Chinese regulations: Not to be used for children under three years of age Brazilian regulations: Not to be used for children under three years of age ASEAN regulations: Not to be used for children under three years of age Mexico regulations: Not to be used for children under three years of age 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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Korea regulations:	Industrial safety and hygiene regulation		
	Hazardous material control regulation Fire prevention regulation:	NO	
Other regulations:		110	
EINECS inventory status:	Aqua:	231-	791-2
-	Lactobacillus/Clover Flower F	erment Extract: 285-	356-7
	Populus Tremuloides Bark Ex	tract: 290-	199-2
TSCA inventory status:	Exempt		
AICS inventory status:	7732-18-5 & 85085-25-2 & 90	083-05-9	
Canadian (CEPA DSL) inventory status:			
	Listed as Water (DSL) & Clov	er, Trifolium pratense, e	xt. (DSL)
Japan (MITI list):	Water & Lactobacillus/Clover	Flower Ferment Extract	& Populus
	Tremuloides Bark Extract		
Korea:	Water & Lactobacillus/Clover	Flower Ferment Extract'	* & Populus
	Tremuloides Bark Extract		
China inventory status:	Not Listed: Lactobacillus/Clov	er Flower Ferment Extra	ict
-	Listed: Water & Populus Trem	uloides Bark Extract	
Philippines inventory status:	Exempt: Populus Tremuloides		5-9)
· · · ·	Not Listed: Lactobacillus/Clov	er Flower Ferment Extra	ict (85085-25-2
	Listed as 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:03/20/2018Preparation Date:04/08/2022MSDS summary of changes- Added Heavy Metals & Arsenic – Section 9 (Physical & Chemical Properties) &
Updated Transport Information – Section 14 (Transport Information)
- Added Irritation Data – Section 11 (Toxicological Information)
- Added Lead & Cadmium & Updated Microbial Content – Section 9 (Physical &
Chemical Properties) & Added Acute Toxicity Data – Section 11 (Toxicological Information)



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MSDS summary of changes (Cont.)	 Updated Europe Basis for Classification & Precautionary Statement – Section 2 (Hazards Identification), Updated Recovery Methods for Cleaning Up – Section 6 (Accidental Release Measures), Updated Recommended Storage Conditions – Section 7 (Handling & Storage), Updated Acute Toxicity Data – Section 11 (Toxicological Information) & Added Ecotoxicity 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.