

Safety Data Sheet 135 Joshua Court, Lincolnton, NC 28092 USA

SECTION 1. IDENTIFICATION

Product Name/Identifier Product Code	FSS White Willow Bark Extract Powder FSS10229
Recommended Use Restrictions on Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products' Refer to the detailed list of labeling/restrictions (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 – 5:00PM EST)
SECTION 2. HAZARD(S) IDEI	NTIFICATION
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.



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By hygroscopic effect:	No	o particular h	azards.		
US NFPA 704 (National Fire Prote	ection Asso	ciation) Haza	rd 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 assessm	ent:				
-PBT: Not applicable -vPvB: Not applicable					
SECTION 3. COMPOSITION	/ INFORM		N INGREDIENTS		
Common Chemical Name:	Salix Alba	a (Willow) Bai	rk Extract		
Generic name:					
Chemical Family:	Plant Ext	ract			
Description: Substance					
<u>Substance</u> Salix Alba (Willow) Bark Extract			CAS Numbers 84082-82-6	<u>EC Numbers</u> 282-029-0	Percentage 100.00%
Formula:	Not appli	icable			
SECTION 4. FIRST-AID MEA	SURES				
General:		In all cases o	f doubt, or when symp	otoms persist, seek me	dical attention.
Inhalation:		Move to fres breathing dif		rea. Get medical atten	ition for any
Skin contact:		Rinse with sc	pap and water. Get me	edical advice if irritatio	n develops.
Eye contact:			rinse with plenty of w eyes wide open. Cons	ater for at least 15 mir ult with a physician.	nutes, while
Ingestion:		Consult with	a physician.		
Protection of first-aiders:		No special pr	rotection required.		
SECTION 5. FIRE-FIGHTING MEASURES					
Fire and explosion hazards:		Not consider	ed to be a fire and exp	olosion hazard	
Extinguishing media:					

Suitable: Water, dry chemicals, foam and carbon dioxide Not suitable: None known



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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	
Minimal Ignition Energy:	< 5 milliJoules	
Protection for fire-fighters:	Boots, gloves, goggles.	
SECTION 6. ACCIDENTAL RELEASE 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.	

SECTION 7. HANDLING AND STORAGE

Handling	
Technical measures:	Any container that has been opened should be rapidly used or repacked in sterile packaging, preventing any exposure to oxygen or moisture. 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.
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°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:	Product may be packaged in normal commercial packaging.
Packaging materials:	Recommended - Polypropylene & High Density Polyethylene



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements:	Ensure adequate ventilation
Control parameters	
Occupational exposure Limits:	
France: ACGIH: Korea: UK:	Not Determined Not Determined Not Determined Not Determined
Surveillance procedures: Engineering measures: Personal Protective Equipment:	Not Determined 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 (Gardner - 1% Solution in Water):	White to off-white, free flowing powder – Hygroscopic 3 Maximum
Odor:	Characteristic
pH (3% solution in water):	4.0 - 6.0
NVM (1g, 105°C, 1hr):	94.0% Minimum
Nitrogen:	2.0 - 5.0%
Salicylic Acid:	53.0 - 65.0%
Heavy Metals: Lead: Arsenic: Mercury: Cadmium:	< 20 ppm < 10 ppm < 2 ppm < 1 ppm < 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:	Not applicable
Freezing Point:	Not applicable
Melting point:	Not determined
Flash point:	> 250°C
Oxidizing properties:	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 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.



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Specific effects:

-Acute oral toxicity

Endocrine Disruption:	No endocrine disrupting properties with respect to the promotion or inhibition of 17β estradiol and testosterone production (OECD456: H295R Steroidogenesis Assay)
Carcinogenicity:	No known effects
Mutagenicity:	No known effects
Reproductive toxicity:	No known effects
Neuro-toxicity:	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:

SECTION 12. ECOLOGICAL INFORMATION

-Primary cutaneous and corrosive irritation

Other Adverse Effects:	None known
Mobility: Precipitation: Expected behavior of the product:	Ultimate destination of the product: Soil & sediment.
Bioaccumulation: Octanol / water partition coefficient:	Not Determined
Biodegradability: Persistence:	Readily Biodegradable (86.05% biodegradation after 28 days of testing)
Ecotoxicity Effects on the aquatic environment:	EC_{10} (Freshwater Alga): 167.44 mg/L - Not harmful to aquatic organisms EC_{20} (Freshwater Alga): 235.99 mg/L - Not harmful to aquatic organisms

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:

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None



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UN Shipping Name: Transport Hazard Class:	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: Chinese regulations: Brazilian regulations: ASEAN regulations: Mexico regulations:	Not to be used for children under three years of age Not to be used for children under three years of age Not to be used for children under three years of age Not to be used for children under three years of age 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)	
Korea regulations:	Industrial safety and hygiene regula Hazardous material control regulat Fire prevention regulation:	
Other regulations:		
EINECS inventory status: TSCA inventory status: AICS inventory status: Canadian (CEPA DSL) inventory status: Japan (MITI list): Korea: China inventory status: Philippines inventory status:	Salix Alba Bark Extract: Exempt 84082-82-6 Listed as Willow, salix alba, ext. Salix Alba (Willow) Bark Extract Salix Alba (Willow) Bark Extract Salix Alba (Willow) Bark Extract Exempt: Salix Alba (Willow) Bark Ext	282-029-0 tract (84082-82-6)

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



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SECTION 16. OTHER INFORMATION

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Prohibited uses:	For specific uses, food industry, ask the manufacturer for more information.
Last Revision Date:	11/14/2023
Preparation Date:	07/19/2024
MSDS summary of changes	 Added Precautionary Statements - Section 2 (Hazards Identification) Updated Transport Information – Section 14 (Transport Information) Updated Technical Measures – Section 7 (Handling and Storage) Added Sensitization & Mutagenicity Data – Section 11 (Toxicological Information) & Added Biodegradability Data – Section 12 (Ecological Information) Updated Sensitization Data – Section 11 (Toxicological Information) Added Acute Toxicity Data – Section 11 (Toxicological Information) Added Acute Toxicity Data – Section 11 (Toxicological Information) Updated Arsenic – Section 9 (Physical & Chemical Properties) Added Cadmium & Updated Microbial Content – Section 9 (Physical & Chemical Properties) Updated Appearance & Added Color (Gardner) – Section 9 (Physical & Chemical Properties) Updated Appearance & Added Color (Gardner) – Section 9 (Physical & Chemical Properties) Updated Acute Toxicity Data – Section 11 (Toxicological Information) & Added Ecotoxicity Data – Section 12 (Ecological Information) Updated Precautionary Statement – Section 2 (Hazards Information) & Updated Recommend Storage Conditions – Section 7 (Handling & Storage) Updated Arsenic Specification – Section 9 (Physical & Chemical Properties) Updated Arsenic Specification – Section 9 (Physical & Chemical Properties) Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures) Updated Recommended Use – Section 1 (Identification) Updated Salicins (as Salicylic Acid) to Salicylic Acid – Section 9 (Physical & Chemical Properties) Added Endocrine Disruption Data – Section 11 (Toxicological 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.