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Leucidal[®] SF Max

Date: 11 / 15 / 2023	Version: 11	Cancels and replaces version: 10

SECTION 1. IDENTIFICATION

Product Name/Identifier Product Code	Leucidal [®] SF Max M15019MAX
Recommended Use Restrictions on Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products'; Antimicrobial None
Supplier/Manufacturing Site Address	Active Micro Technologies, LLC 107 Technology Drive Lincolnton, NC 28092, USA
Telephone No. (24hrs) Fax No.	1-704-276-7100 1-704-276-7101
Emergency Telephone #	1-704-276-7100 (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 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

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name:	Lactobacillus Ferment	
Generic name:		
Chemical Family:	Ferment	
Description: Substance		
<u>Substance</u> Lactobacillus Ferment	CAS Numbers 1686112-36-6 (or) 68333-16-4EC Numbers N/A (or) N/APercentage100.00%	
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 water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.	

Information 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 involved in the use of its chemical products since the conditions of use are beyond our control. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. We make no warranty of any kind, expressed or implied, other than that the material conforms to the applicable standard specification.

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Ingestion:	Consult with a physician.		
Protection of first-aiders:	No special protection required.		
SECTION 5. FIRE-FIGHTING ME	ASURES		
Fire and explosion hazards:	Not considered to be a fire and ex	Not considered to be a fire and explosion hazard	
Extinguishing media:			
Suitable:	Water, dry chemicals, foam & carb	Water, dry chemicals, foam & carbon dioxide.	
Not suitable:	None known	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 RELEA	SE 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.		
	a clearly labeled waste container,	avoiding dust formation.	
Cleaning/Decontamination:	Wash non-recoverable remainder	0	

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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 temperat However, it may be stored at t temperature control is not ava	atures not exceeding 32°C. Based on stability studie ture for maximization of shelf life is 23 - 25°C. temperatures between 16 and 32°C if such specific ilable. Do not freeze. Please refer to stability data fo on the specifications of the product.
Incompatible products:	Avoid contact with strong oxid Refer to the detailed list of inc	lizers. ompatible materials (Section 10 Stability/Reactivity)
Packaging: Packaging materials:		normal commercial packaging. ne & High Density Polyethylene
SECTION 8. EXPOSURE CONTROLS	6 / 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:	Not Determined Not Determined	
Personal Protective Equipment:		
Respiratory protection: Hand protection: Eye protection: Collective emergency equipment: Skin and Body Protection: Hygiene measures:	Local exhaust Protective gloves made of rub Safety glasses. Eye fountain. Suitable protective clothing Handle in accordance with go	ber or neoprene. od industrial hygiene and safety practice.
Measures related to the Environment:	No particular measures.	
SECTION 9. PHYSICAL AND CHEMI	CAL PROPERTIES	
Appearance: Color:	Clear to slightly hazy liquid Colorless to yellow	
Odor:	Characteristic	



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Solids (1g/1hr/105°C):	20.0 – 25.0%	
pH (Direct):	4.0 - 11.0	
Heavy Metals: Lead: Arsenic: Cadmium:	< 20 ppm < 10 ppm < 2 ppm < 1 ppm	
Bacteriocins (HPLC):	5.00 – 10.00%	
Minimum Inhibitory Concentration Organism (ATCC#): E. coli (#8739): S. aureus (#6538): P. aeruginosa (#9027): C. albicans (#10231): A. brasiliensis (#16404):	0.25 - 1.00% 0.25 - 1.00% 0.25 - 1.00% 0.25 - 1.00% 0.25 - 1.00%	
Specific Gravity:	0.994	
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 REAC	CTIVITY	
Stability:	Stable under ordinary conditions or re-test to full product specification	of use and storage up to one year then s to extend shelf life
Hazardous reactions:	None known	
Conditions to avoid:	No dangerous reactions known u Avoid extreme heat.	nder use of normal conditions.

Materials to avoid:

Hazardous decomposition products: None known

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No dangerous reaction known with common products.



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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:	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.		
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		

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects on the aquatic environment:	EC_{10} (Freshwater Alga): 135.66 mg/L - Not harmful to aquatic organisms EC_{20} (Freshwater Alga): 261.89 mg/L - Not harmful to aquatic organisms
Biodegradability: Persistence:	Readily Biodegradable (89.5% biodegradation after 28 days of testing)



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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		
SECTION 13. DISPOSAL CONSIDER	RATIONS		
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 a	according to local regulations.	
SECTION 14. TRANSPORT INFORM	IATION		
UN Number: UN Shipping Name:	None None		
Transport Hazard Class:	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 Trai This material is not dangerous		
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 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)	
Korea regulations:	Industrial safety and hygiene regulation: Hazardous material control regulation: Fire prevention regulation:	No No No
Other regulations:		
EINECS inventory status:	Lactobacillus Ferment	N/A (or) N/A
TSCA inventory status:	Exempt	
AICS inventory status:	Not Listed: 1686112-36-6	
Canadian (CEPA DSL) inventory statu	Listed as Lactobacillus acidophilu	
Japan (MITI list): Korea:	Lactobacillus Ferment Lactobacillus Ferment	
China inventory status:	Lactobacillus Ferment	
Philippines inventory status:	Not Listed: Lactobacillus Ferment (1686112-36-6 (or) 68333-16-4)	

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:	11/19/2021
Preparation Date:	11/15/2023
MSDS summary of changes	 Removed Microbial Content & Added Minimum Inhibitory Concentration – Section 9 (Physical & Chemical Properties) & Added Irritation Data – Section 11 (Toxicological Information) Added Acute Toxicity, Sensitization & Mutagenicity Data – Section 11 (Toxicological Information) & Added Biodegradability Data – Section 12 (Ecological Information)



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MSDS summary of changes (Cont.)	 Added Bacteriocin 1 – Section 9 (Physical & Chemical Properties) Updated Bacteriocins – Section 9 (Physical & Chemical Properties) Updated CAS#'s – Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) Updated Specific Gravity – Section 9 (Physical & Chemical Properties) Updated Precautionary Statement – Section 2 (Hazards Identification), Updated Recommended Storage Conditions – Section 7 (Handling & Storage Updated Acute Toxicity Data – Section 11 (Toxicological Information) & Added Ecotoxicity Data – Section 12 (Ecological Information) Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures) Updated Recommended Use – Section 1 (Identification) 	

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.