

135 Joshua Court, Lincolnton, NC 28092 USA

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Date: 07 / 11 / 2024	Version: 19	Cancels and replaces version: 18

SECTION 1. IDENTIFICATION

Product Name/Identifier Product Code	Leucidal [®] Liquid FSSM15008
Recommended Use Restrictions on Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products'; Antimicrobial 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) 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:

Leuconostoc/Radish Root Ferment Filtrate

Generic name:

Chemical Family:

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	
Leuconostoc/Radish Root Ferment Filtrate	1686112-10-6 (or)	N/A (or)	48.00 – 52.00%
	84775-94-0	283-918-6	48.00 – 52.00%

Formula:

Not applicable

Ferment

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.



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Indestion	Consult with a physician.	
Ingestion: Protection of first-aiders:	No special protection required.	
SECTION 5. FIRE-FIGHTING MEA	SURES	
Fire and explosion hazards:	Not considered to be a fire and exp	losion hazard
Extinguishing media:		
Suitable:	Water, dry chemicals, foam & 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 comb Stay upwind and keep out of low an	
Protection for fire-fighters:	Boots, gloves, goggles.	
SECTION 6. ACCIDENTAL RELEAS	E 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 d absorbed on an inert material. Swee a clearly labeled waste container, a	ep or vacuum up any powder and place in
Cleaning/Decontamination:	Wash non-recoverable remainder w	vith water.
Disposal:	For disposal of residues refer to see	ctions 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:	studies, the optimum storage te 25°C. However, it may be store specific temperature control is r	tures not exceeding 32°C. Based on stability emperature for maximization of shelf life is 23 - ed at temperatures between 16 and 32°C if such not available. Do not freeze. Please refer to stabil by 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: Packaging materials:	Product may be packaged in normal commercial packaging. Recommended - Polypropylene & High Density Polyethylene	
SECTION 8. EXPOSURE CONTROLS	S / 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 rubb Safety glasses. Eye fountain. Suitable protective clothing Handle in accordance with goo	ber or neoprene. Id 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 Yellow to light amber	

Odor:

Characteristic



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Solids (1g-105°C-1hr):	48.0 – 52.0%	
pH:	4.0 - 6.0	
Specific Gravity (25°C):	1.140 – 1.180	
Ninhydrin:	Positive	
Phenolics (tested as Salicylic Aci	d): 18.0 – 22.0%	
Heavy Metals:	< 20 ppm	
Lead:	< 10 ppm	
Arsenic:	< 2 ppm	
Cadmium:	< 1 ppm	
Bacteriocins (HPLC):	0.10 - 0.50%	
Minimum Inhibitory Concentratio	n	
Organism (ATCC#):	0.50 4.00%	
E. coli (#8739):	0.50 - 4.00%	
S. aureus (#6538):	0.25 - 2.00%	
P. aeruginosa (#9027):	1.00 - 4.00%	
C. albicans (#10231): A. brasiliensis (#16404):	0.25 – 2.00% 0.25 – 2.00%	
A. brasiliensis (#10404).	0.23 - 2.00 %	
Vapor pressure (@ 20°C):	~20 mm Hg	
Vapor density:	Not applicable	
Boiling Point:	100°Ċ	
Freezing Point:	0°C	
Melting point:	Not applicable	
Flash point:	> 200°F	
Oxidizing properties:	Non oxidizing material accordin	ng to EC criteria.
Solubility:		
In water:	Soluble	
In organic solvents:	Not determined	
K _{OW} : Log(K _{ow}):	0.013 -1.92	
SECTION 10. STABILITY AND REA	ACTIVITY	
Stability:	Stable under ordinary condition re-test to full product specification	s of use and storage up to one year then ons to extend shelf life

Hazardous reactions:

None known



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Conditions to avoid:	No dangerous reactions known under use of normal conditions. Avoid extreme heat.	
Materials to avoid:	No dangerous reaction known w	ith common products.
Hazardous decomposition products	s: None known	
SECTION 11. TOXICOLOGICAL INF	ORMATION	
Ingestion: Dermal: Ocular: Inhalation:	Not Determined Non-Irritant (Dermal Irritection Mo Non-Irritant (Ocular Irritection Mo Not Determined	
Acute toxicity data:	Non-Irritant, Non-Primary Sensitiz	zer & Non-Photo irritant
Sensitization:		ary Sensitizers; Will not cause allergic contac sitization Direct Peptide Reactivity Assay & Ir 2 Luciferase Test Method)
Repeated dose toxicity:	No known effects	
Subacute to chronic toxicity:	Not Determined	
Mutagenicity:	Non-Mutagenic (OECD471/ISO1) Reverse Mutation Test)	0993.Part 3 – Genotoxicity: Bacterial
Additional Toxicological Informatio		assification according to the calculation if it is a similar to the calculation similar to the second second signal to the second se
Specific effects:		
Endocrine Disruption:	No endocrine disrupting propertie of 17β-estradiol and testosterone Steroidogenesis Assay)	es with respect to the promotion or inhibition production (OECD456: H295R
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 conditions of good occupational	
This product has not been tested for the -Primary cutaneous and corrosive irrit		

-Acute oral toxicity



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Safety Data Sheet

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SECTION 12. ECOLOGICAL INFOR	MATION	
Ecotoxicity Effects on the aquatic environment:		ng/L - Not harmful to aquatic organisms ng/L - Not harmful to aquatic organisms
Biodegradability: Persistence:	Readily Biodegradable (92% biod	degradation after 28 days of testing)
Bioaccumulation: Octanol / water partition coefficient:	Not Determined	
Mobility: Precipitation: Expected behavior of the product:	Ultimate destination of the produc	ct: Soil & sediment.
Other Adverse Effects:	None known	
SECTION 13. DISPOSAL CONSIDE	RATIONS	
Residues from product		
Prohibition: Destruction/Disposal:	Do not allow the product to be rele Dispose of in accordance with rele	
Contaminated packaging		
Decontamination/cleaning: Destruction/Disposal:	Cleaning is not required prior to o	disposal.
Note: Take all necessary precautions	s when disposing of this product acc	cording to local regulations.
SECTION 14. TRANSPORT INFORM	IATION	
UN Number: UN Shipping Name:	None None	
Transport Hazard Class:	Not classified as dangerous for tr	ransport
Land (rail/road): Sea: Air:	Material is not restrictive for sea	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 or	



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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: Chinese regulations: Brazilian regulations: ASEAN regulations: Mexico regulations:	Not to be used for children under three years Not to be used for children under three years	of age of age of age	
Further regulations			
United Kingdom:	Handle in accordance with relevant British reg substance Hazardous to Health Regulations B Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually)	Environmental	
Korea regulations:	Industrial safety and hygiene regulation: No Hazardous material control regulation: No Fire prevention regulation: No	,	
Other regulations:			
EINECS inventory status:	Aqua: Leuconostoc/Radish Root Ferment Fi	231-791-2 N/A (ar) 282 018 6	
TSCA inventory status: AICS inventory status:	Exempt Not Listed: 1686112-10-6 Listed: 7732-18-5 & 84775-94-0	iltrate: N/A (or) 283-918-6	
Canadian (CEPA DSL) inventory statu	s: Not Listed: Leuconostoc/Radish Root Listed as Water (DSL) & Radish, ext.	Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6) Listed as Water (DSL) & Radish, ext. (Revised ICL)	
Japan (MITI list):	Water & Leuconostoc/Radish Root Fe	Water & Leuconostoc/Radish Root Ferment Filtrate	

Japan (MITI list): Korea: China inventory status: Philippines inventory status:

Water & Leuconostoc/Radish Root Ferment Filtrate** Water & Leuconostoc/Radish Root Ferment Filtrate Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6 (or) 84775-94-0) Listed as Water

*Listed on 2010 INCI Standard Chinese Name Directory

**Not listed in 2004 CTFA Dictionary - Registered with Personal Care Products Council



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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: 02/01/2024 07/11/2024 Preparation Date: MSDS summary of changes - Removed freezing range under Section 7 (Handling and Storage) - New Logo - Added Precautionary Statements - Section 2 (Hazards Identification) - Added Minimum Inhibitory Concentration - Section 9 (Physical & Chemical Properties) - Updated Transport Information – Section 14 (Transport Information) - Added Sensitization Data - Section 11 (Toxicological Information) - Updated CAS/EINECS#'s - Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) - Added Sensitization Data – Section 11 (Toxicological Information) - Added Lead & Cadmium - Section 9 (Physical & Chemical Properties) - Updated CAS/EINEC#'s - Section 3 (Composition / Information on Ingredients) & Section 15 (Regulatory Information) - Added Octanol Partition Coefficient - Section 9 (Physical & Chemical Properties) - Added Bacteriocins - Section 9 (Physical & Chemical Properties) - Updated Bacteriocins – Section 9 (Physical & Chemical Properties) - Updated Acute Toxicity, Sensitization & Mutagenicity Data - Section 11 (Toxicological Information) & Updated Biodegradability Data – Section 12 (Ecological Information) - 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 Europe Basis for Classification - Section 2 (Hazards Information) - Updated Recommended Use - Section 1 (Identification) & Updated Recovery Methods for Cleaning up – Section 6 (Accidental Release Measures) - 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.