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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: Product Code: Leucidal[®] Liquid FSSM15008

1.2. Relevant identified uses of the substance/mixture and uses advised against

Recommended Use:	Topical cosmetic use; Antimicrobial
Restrictions on Use:	Refer to the detailed list of labeling/restrictions (Section 15 Regulatory
	Information).

1.3. Details of the supplier of the safety data sheet

Company name:	Formulator Sample Shop [®] Srl
Company address:	P.O. Box – 20087 Robecco sul Naviglio (Milan) Italy
Telephone number:	+39 (0)2 902 78 641
Fax number:	+39 (0)2 903 60 718
E-mail address:	info@formulatorsampleshop.eu

1.4. Emergency telephone number

+39 (0)2 902 78 641 - Mon-Fri: 8:30AM-5:30PM

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance/mixture

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 Regulation (EC) No. 1272/2008 (amending and repealing Directives 67/548/EEC and 1999/45/EC). This product is not classified as hazardous to health or environment according to the CLP regulation.
Nature of special risks attributed:	None in particular
2.2. Labeling Elements	
Provided symbols / Pictograph:	No hazard symbol expected
Hazard Statements/Signal Words:	Not applicable





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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 25°C

2.3. Other hazards which do not result in classification:

No particular fire or explosion hazard. By mechanical effect: By hydroscopic effect:

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

No particular hazards

No particular hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Composition/information on ingredients

Common Chemical Name:	Leuconostoc/Radish Root Ferment Filtrate
Generic Name:	
Chemical Family:	Ferment

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

Formula:

Not applicable

4. FIRST AID MEASURES

4.1. Description of first aid measures

General: Direct contact with skin: In all cases of doubt, or when symptoms persist, seek medical attention. Rinse immediately with soap and water. Get medical advice if irritation develops.



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Direct contact with eyes: Inhalation: Ingestion: Protection of first-aiders:	Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician. Move to fresh air from exposure area. Get medical attention for any breathing difficulty. Consult with a physician. No special protection required.	
4.2. Most important symptoms	s and effects, both acute and delayed	
Symptoms and effects:	No data available	
4.3. Indication of any immediate medical attention and special treatment needed		
Indication:	No data available	
5. FIREFIGHTING MEASU	RES	
5.1. Extinguishing media		
5.1. Extinguishing media Extinguishing Media:	Water, dry chemicals, foam and carbon dioxide.	

5.3. Advice for firefighters

Special Fire Fighting Procedures:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.
Protection for fire-fighters:	Stay upwind and keep out of low area. Boots, gloves, goggles.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For emergency responders:	Avoid contact with eyes. Avoid contact with eyes.
	Personal Protective Equipment: - Protective goggles
6.2. Environmental precautions	
Environmental Protection Measures:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system.
6.3. Methods and material for cont	ainment and cleaning up
Recovery:	Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material.
Cleaning/Decontamination:	Wash non-recoverable remainder with water.

6.4. Reference to other sections

References:

Refer to paragraphs 8 and 13 for more information.



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7. HANDLING AND STORAGE

7.1. Precaution for safe 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.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures:	Keep container closed.	
Recommended Storage Conditions:	Store in a cool, dry place. This material must be stored at room temperature (23°C/25°C). It should not be exposed to excessive heat or cold. Do not freeze.	
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.	

7.3. Specific and use(s)

Use(s):

Cosmetic use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary statements:

Ensure adequate ventilation.

8.1. Control parameters

Occupational exposure Limits:

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

8.2. Exposure controls/ 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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Color:	Clear to slightly hazy liquid Yellow to light amber
Odor: Solids (1g-105°C-1hr):	Characteristic 48.0 – 52.0%
pH:	4.0 - 6.0
Specific Gravity (25°C):	1.140 - 1.180
Ninhydrin:	Positive
Phenolics (tested as Salicylic Acid):	18.0 – 22.0%
Heavy Metals: Lead: Arsenic: Cadmium:	< 20 ppm < 10 ppm < 2 ppm < 1 ppm
Bacteriocins (HPLC):	0.10 - 0.50%
Minimum Inhibitory Concentration Organism (ATCC#): E. coli (#8739): S. aureus (#6538): P. aeruginosa (#9027): C. albicans (#10231): A. brasiliensis (#16404):	0.50 - 4.00% 0.25 - 2.00% 1.00 - 4.00% 0.25 - 2.00% 0.25 - 2.00%
Vapor pressure (@ 20°C): Vapor density: Boiling Point: Freezing Point: Melting point:	~20 mm Hg 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: Kow: Log(Kow):	Soluble Not determined 0.013 -1.92

9.2. Other information





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Information:



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10. STABILITY AND REACTIVITY

10.1. Reactivity	
Reactivity:	None known
10.2. Chemical stability	
Stability:	Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life.
10.3. Possibility of hazardous reaction	ons
Hazardous reaction:	None known
10.4. Conditions to avoid	
Conditions to avoid:	No dangerous reactions known under use of normal conditions. Avoid extreme heat.
10.5. Incompatible materials	
Incompatibility:	No dangerous reaction known with common products.
10.6. Hazardous decomposition proc	lucts
Hazardous decomposition:	None known

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Reproductive toxicity: Neuro-toxicity:	No known effects No known effects
Mutagenicity:	No known effects
Carcinogenicity:	No known effects
Specific effects:	
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.
Mutagenicity/genotoxicity:	Non-mutagenic
Repeated dose toxicity: Subacute to chronic toxicity:	No known effects Not Determined
Acute toxicity data: Sensitization:	EC_{50} (Acute Daphnia): 131 mg/L - Not harmful to aquatic organisms Non-Primary Irritant & Non-Primary Sensitizer (RIPT, In-Vitro Skin Sensitization Report & Direct Peptide Reactivity Assay)
Ingestion: Dermal: Ocular: Inhalation:	Not Determined Non-Irritant (Dermal Irritection Model & 48 Hour Patch Test) Non-Irritant (Ocular Irritection Model) Not Determined
To an attice of	Net Determined





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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

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity:

Not determined

12.2. Persistence and degradability	
Persistence and degradability:	Readily Biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential: Not determined

12.4. Mobility

Precipitation: Expected behavior of the product: Ultimate destination of the product: Soil & sediment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment:	Not determined
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12.6. Other adverse effects

Other adverse effects: None known

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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.



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14. TRANSPORT INFORMATION

14.1. UN number Number:	None
14.2. UN proper shipping name Shipping name:	None
14.3. Transport hazard class(es) 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 land transport and is not regulated by ICA/IATA
Marine Pollutant:	No
Transport/Additional Information:	Not regulated for US DOT Transport in non-bulk containers. This material is not dangerous or hazardous.
14.4. Picking group Picking group:	None
14.5. Environmental hazards Environmental hazards:	None
14.6. Special precautions for user Precautions:	None known
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	

Transport in bulk:

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.

N/A

15. REGULATORY INFORMATION

15.1. Safety, health an environmental regulations/legislation specific for the substance/mixture

Labeling/Restrictions:

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



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Further regulations

United Kingdom: Korea regulations:	Handle in accordance with relevant British regulations to Health Regulations Environmenta Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually) Industrial safety and hygiene regulation: Hazardous material control regulation: Fire prevention regulation:	
Other regulations:		
EINECS inventory status:	Aqua: Leuconostoc/Radish Root Ferment Filtrat	231-791-2 e: N/A
TSCA inventory status:	Exempt	
AICS inventory status:	Not Listed: 1686112-10-6 Listed: 7732-18-5	
Canadian (CEPA DSL) inventory status:	Not Listed: Leuconostoc/Radish Root Fer Listed as Water (DSL)	ment Filtrate (1686112-10-6)
Japan (MITI list):	Water & Leuconostoc/Radish Root Ferme	
Korea:	Water & Leuconostoc/Radish Root Ferme	
China inventory status: Philippines inventory status:	Water & Leuconostoc/Radish Root Ferme Not Listed: Leuconostoc/Radish Root Fer Listed as Water	

*Listed on 2010 INCI Standard Chinese Name Directory **Not listed in 2004 CTFA Dictionary – Registered with Personal Care Products Council

15.2. Chemical safety assessment

Assessment:

N/A

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

16. OTHER INFORMATION

Prohibited uses:	For specific uses, food industry, ask the manufacturer for more information.
Last Revision Date:	06/02/2018
Preparation Date:	13/02/2018
MSDS summary of changes	 Removed freezing range under Section 7 (Handling and Storage) 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)



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MSDS summary of changes (cont.)	 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 Bacteriocins – Section 9 (Physical & Chemical Properties)
Further information:	This document is in accordance with EC Directive 2001/58/EC and the Regulation(EC) 1907/2006 (REACH) Annex II 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.