

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 1/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15
SECTION 1. IDENTIFICATI	ON	
Product Name/Identifier Product Code	Leucidal <sup>®</sup> Liquid M15008	
Recommended Use	Topical Cosmetic Use; Antimicrobial	
Restrictions on Use	Refer to the detailed list of labeling/restric	tions (Section 15 Regulatory Information)
Supplier/Manufacturing Sit Address	e Ekokoza s.r.o, Fryčovice 297, 73945, Fryd IČ: 07508247, eshop@ekokoza.cz	čovice
Telephone No. (24hrs) Fax No.	Nouzové telefonní číslo: +420224919293 denně) Toxikologické informační středisko	,

**Emergency Telephone #** 

### 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:	<ul> <li>According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.</li> <li>This product is not classified as hazardous to health or environment according to the CLP regulation.</li> </ul>
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

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 2/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15

### 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

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

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.	

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 3/9	
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15	
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	plosion hazard	
Extinguishing media:			
Suitable:	Water, dry chemicals, foam & car	bon 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 absorbed on an inert material.	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.		
Disposal:	For disposal of residues refer to sections 8 & 13.		

### **SECTION 7. HANDLING AND STORAGE**

<b>Handling</b> 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.
This information is presented in good faith b	ut is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 4/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15
Storage		
Technical measures:	Keep container closed.	
Recommended Storage Conditions:	Store in a dry place at temperature studies, the optimum storage tem 25°C. However, it may be stored specific temperature control is not	ares not exceeding 32°C. Based on stability nperature for maximization of shelf life is 23 - l at temperatures between 16 and 32°C if such ot available. Do not freeze. Please refer to stabili have on the specifications of the product.
Incompatible products:	Avoid contact with strong oxidize Refer to the detailed list of incom	ers. npatible materials (Section 10 Stability/Reactivity
Packaging: Packaging materials:	Product may be packaged in nor Recommended - Polypropylene	
SECTION 8. EXPOSURE CONTROLS	S / PERSONAL PROTECTION	
Precautionary statements:	Ensure adequate ventilation	
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	
Personal Protective Equipment:		
Respiratory protection:	Local exhaust	
Hand protection:	Protective gloves made of rubbe	r or neoprene.
Eye protection:	Safety glasses.	
Collective emergency equipment:	Eye fountain.	
Skin and Body Protection: Hygiene measures:	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 CHEMI	CAL PROPERTIES	
Appearance:	Clear to slightly hazy liquid	

Color:

Clear to slightly hazy liquid Yellow to light amber

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 5/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15
Odor:	Characteristic	
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 A	<b>cid):</b> 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 Concentrati	on	
Organism (ATCC#):		
E. coli (#8739):	0.50 - 4.00%	
S. aureus (#6538):	0.25 – 2.00%	
P. aeruginosa (#9027):	1.00 - 4.00%	
C. albicans (#10231):	0.25 – 2.00%	
A. brasiliensis (#16404):	0.25 – 2.00%	
Vapor pressure (@ 20°C):	~20 mm Hg	
Vapor density:	Not applicable	
Boiling Point:	100°C	
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 <sub>ow</sub> :	0.013	
Log(K <sub>ow</sub> ):	-1.92	

### 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

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 6/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15
Hazardous reactions:	None known	
Conditions to avoid:	No dangerous reactions know Avoid extreme heat.	n under use of normal conditions.
Materials to avoid:	No dangerous reaction known	with common products.
Hazardous decomposition pro	oducts: 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:	No known effects
Subacute to chronic toxicity:	Not Determined
Mutagenicity:	Non-Mutagenic (OECD471/ISO10993.Part 3 – Genotoxicity: Bacterial Reverse Mutation Test)
Additional Toxicological Informatio	n: 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 -Primary cutaneous and corrosive irrite -Acute oral toxicity	

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 7/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15
SECTION 12. ECOLOGICAL INFOR	MATION	
<b>Ecotoxicity</b> Effects on the aquatic environment:		5 mg/L - Not harmful to aquatic organisms 5 mg/L - Not harmful to aquatic organisms
Biodegradability: Persistence:	Readily Biodegradable (92% bio	odegradation after 28 days of testing)
<b>Bioaccumulation:</b> Octanol / water partition coefficient:	Not Determined	
<b>Mobility:</b> Precipitation: Expected behavior of the product:	Ultimate destination of the produ	uct: 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 re Dispose of in accordance with re	
Contaminated packaging		
Decontamination/cleaning: Destruction/Disposal:	Cleaning is not required prior to	disposal.
Note: Take all necessary precautions	s when disposing of this product a	ccording 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 sea	d transport and is not regulated by ADR/RII a transport and is not regulated by IMO/IMD d transport and is not regulated by ICA/IAT,
Marine Pollutant:	No	
Transport/Additional Information:	Not regulated for US DOT Trans This material is not dangerous of	
This information is presented in good faith	but is not warranted as to accuracy of results	Also, freedom from patent infringement is not implied.

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 8/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15

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 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 regulation:NoHazardous material control regulation:NoFire prevention regulation:No	
Other regulations:		
EINECS inventory status:	Aqua: 231-791-2 Leuconostoc/Radish Root Ferment Filtrate: N/A (or) 283-918-6	
TSCA inventory status:	Exempt	
AICS inventory status:	Not Listed: 1686112-10-6 Listed: 7732-18-5 & 84775-94-0	
Canadian (CEPA DSL) inventory statu	us: Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6 Listed as Water (DSL) & Radish, ext. (Revised ICL)	
Japan (MITI list): Korea:	Water & Leuconostoc/Radish Root Ferment Filtrate Water & Leuconostoc/Radish Root Ferment Filtrate**	
China inventory status:	Water & Leuconostoc/Radish Root Ferment Filtrate	
Philippines inventory status:	Not Listed: Leuconostoc/Radish Root Ferment Filtrate (1686112-10-6 (or) 84775-94-0)	

\*Listed on 2010 INCI Standard Chinese Name Directory

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

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.

Listed as Water

Ekokoza s.r.o, Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz

Leucidal <sup>®</sup> Liquid		Page: 9/9
Date: 12 / 27 / 2019	Version: 16	Cancels and replaces version: 15

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:	09/12/2019
Preparation Date:	12/27/2019
MSDS summary of changes	<ul> <li>Removed freezing range under Section 7 (Handling and Storage)</li> <li>New Logo</li> <li>Added Precautionary Statements - Section 2 (Hazards Identification)</li> <li>Added Minimum Inhibitory Concentration – Section 9 (Physical &amp; Chemical Properties)</li> <li>Updated Transport Information – Section 14 (Transport Information)</li> <li>Added Sensitization Data – Section 11 (Toxicological Information)</li> <li>Updated CAS/EINECS#'s – Section 3 (Composition / Information on Ingredients) &amp; Section 15 (Regulatory Information)</li> <li>Added Sensitization Data – Section 11 (Toxicological Information)</li> <li>Added Sensitization Data – Section 3 (Composition / Information)</li> <li>Added Sensitization Data – Section 9 (Physical &amp; Chemical Properties)</li> <li>Updated CAS/EINEC#'s – Section 3 (Composition / Information on Ingredients) &amp; Section 15 (Regulatory Information)</li> <li>Added Cas/EINEC#'s – Section 9 (Physical &amp; Chemical Properties)</li> <li>Updated Octanol Partition Coefficient – Section 9 (Physical &amp; Chemical Properties)</li> <li>Updated Bacteriocins – Section 9 (Physical &amp; Chemical Properties)</li> <li>Updated Bacteriocins – Section 9 (Physical &amp; Chemical Properties)</li> <li>Updated Acute Toxicity, Sensitization &amp; Mutagenicity Data – Section 11 (Toxicological Information) &amp; Updated Biodegradability Data – Section 12 (Ecological Information)</li> <li>Updated Precautionary Statement – Section 7 (Handling &amp; Storage), Updated Acute Toxicity Data – Section 11 (Toxicological Information)</li> <li>Updated Acute Toxicity Data – Section 11 (Toxicological Information)</li> </ul>

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.