

## Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

### LEUCIDAL® PRESERVATIVE

#### 1. Identification of the substance/mixture and company

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Trade name: Leucidal® Preservative  
INCI: Leuconostoc/Radish Root Ferment Filtrate, Water  
CAS No. : 1686112-10-6, 7732-18-5  
REACH registration No. : -  
Utilization: Raw material for cosmetics, personal care  
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania  
Tel/Fax: +40259-436.755, www.ellemental.com  
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.  
International emergency number: +49 180 2273-112

#### 2. Hazards Identification

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According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC. 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 25°C

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

#### 3. Declaration of ingredients

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#### 3.1 Substances

NA

#### 3.2 Mixtures

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	N/A	48.00 – 52.00%

#### 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.

Ingestion: Consult with a physician.

Protection of first-aiders: No special protection required.

#### 5. Fire fighting measures

Fire and explosion hazards: Not considered to be a fire and explosion 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 combustion by-products.

Stay upwind and keep out of low area

Protection for fire-fighters: Boots, gloves, goggles.

#### 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.

Cleaning/Decontamination: Wash non-recoverable remainder with water.

Disposal: For disposal of residues refer to sections 8 & 13.

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#### 7. Handling and storage

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##### 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.

##### Storage

Technical measures: Keep container closed.

Recommended Storage Conditions: Store in a cool, dry place. This product should be stored at room temperature (23 - 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

#### 8. Exposure controls / personal protection

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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 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.

#### 9. Physical and chemical properties

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Appearance: Clear to slightly hazy liquid

Color: Yellow to light amber

Odor: Characteristic

Solids (1g-105°C-1hr): 48.0 – 52.0%

pH: 4.0 – 6.0

Specific Gravity (25°C): 1.140 – 1.180

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Ninhydrin: Positive  
Phenolics (tested as Salicylic Acid): 18.0 – 22.0%  
Heavy Metals: < 20 ppm  
Arsenic: < 2 ppm  
Minimum Inhibitory Concentration  
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 according to EC criteria.  
Solubility:  
In water: Soluble  
In organic solvents: Not determined  
Log P: Not determined

#### 10. Stability and reactivity

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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

#### 11. Toxicological information

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Ingestion: Not Determined  
Dermal: Non-Irritant (Dermal Irritation Model)  
Ocular: Non-Irritant (Ocular Irritation Model)  
Inhalation: Not Determined  
Acute toxicity data: EC50 (Acute Daphnia): 131 mg/L - Not harmful to aquatic organisms  
Sensitization: Non-Primary Irritant & Non-Primary Sensitizer (RIPT, In-Vitro Skin  
Sensitization Report & Direct Peptide Reactivity Assay)  
Repeated dose toxicity: No known effects  
Subacute to chronic toxicity: Not Determined

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Mutagenicity/genotoxicity: Non-mutagenic

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: 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:

-Primary cutaneous and corrosive irritation

-Acute oral toxicity.

## 12. Ecological information

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Ecotoxicity

Effects on the aquatic environment: Not Determined

Biodegradability:

Persistence: Readily Biodegradable

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

## 13. Disposal considerations

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Residues from product

Prohibition: Do not allow the product to be released into the Environment.

Destruction/Disposal: Dispose of in accordance with relevant local regulations

Contaminated packaging

Decontamination/cleaning: Cleaning is not required prior to disposal.

Destruction/Disposal:

Note: Take all necessary precautions when disposing of this product according to local regulations

## 14. Transport information

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UN Number: None

UN Shipping Name: None

Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID

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Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG

Air: 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

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.

## 15. Regulatory information

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Labeling/Restrictions:

EC regulations: Not to be used for children under three years of age

EU Restrictions: Not to be used in preparations for children under 3 years of age, except for shampoos

Chinese regulations: Not to be used for children under three years of age

Brazilian regulations: Not to be used for children under three years of age

ASEAN regulations: Not to be used for children under three years of age

Mexico regulations: 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: No

Hazardous material control regulation: No

Fire prevention regulation: No

Other regulations:

EINECS inventory status: Aqua: 231-791-2

Leuconostoc/Radish Root Ferment Filtrate: 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 Ferment Filtrate (1686112-10-6)

Listed as Water (DSL)

Japan (MITI list): Water & Leuconostoc/Radish Root Ferment Filtrate

Korea: 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)

Listed as Water

\*Listed on 2010 INCI Standard Chinese Name Directory

\*\*Not listed in 2004 CTFD Dictionary – Registered with Personal Care Products Council

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

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complete these regulations. Please refer to all applicable international, national and local regulations and provisions.

#### 16. Additional information

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##### 16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

##### Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.