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# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 15.08.2024 Version 102 (replaces version 101) Revision: 15.08.2024

## . SECTION 1: Identification of the substance/mixture and of the company/undertaking

- ∘ 1.1 Product identifier
- ∘ Trade name: L-Menthol ind. EuAB (WHO-GMP zertifiziert)
- Article number: S0100796
- CAS Number: 2216-51-5
   EC number: 218-690-9
- ∘ Registration number 01-2119458866-21-0022
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture Flavour/Fragrance
- ∘ 1.3 Details of the supplier of the safety data sheet
- ∘ Manufacturer/Supplier:

Frey & Lau GmbH

Immenhacken 12, D-24558 Henstedt-Ulzburg

Tel:++49-4193-9953 Fax: +49-4193-9955-80

∘ Further information obtainable from: Sachkundige Person Frey + Lau

info@freylau.com

1.4 Emergency telephone number: ++49-40-54.77.99.56 WAKO

### . SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS07

- Signal word Warning
- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.

- 2.3 Other hazards
- ∘ Results of PBT and vPvB assessment
- ∘ PBT: Not applicable.
- ⋄ vPvB: Not applicable.

## . SECTION 3: Composition/information on ingredients

- ∘ 3.1 Substances
- ∘ CAS No. Description 2216-51-5 L-Menthol

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Identification number(s)

∘ EC number: 218-690-9

#### . SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### . SECTION 5: Firefighting measures

- ∘ 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, sand, extinguishing powder. Do not use water.

- Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- ⋄ 5.3 Advice for firefighters
- Protective equipment: No special measures required.

#### . SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# . SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Thorough dedusting.
- Information about fire and explosion protection: No special measures required.
- ∘ 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 11
- ∘ 7.3 Specific end use(s) No further relevant information available.



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#### . SECTION 8: Exposure controls/personal protection

#### ⋄ 8.1 Control parameters

- ∘ Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.

#### ⋄ 8.2 Exposure controls

- · Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Respiratory protection: Not required.
- · Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Multichemical-resistant gloves, Category III acc. to Regulation (EC) 2016/425

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Tightly sealed goggles

### . SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- ∘ General Information
- ∘ Physical state
- ⋄ Colour:
- Odour:
- Odour threshold:
- ⋄ Melting point/freezing point:
- ∘ Flammability
- ∘ Lower:
- Upper:
- ⋄ Flash point:
- ◇ Auto-ignition temperature:
- Decomposition temperature:
- ∘ pH
- ∘ Solubility
- ∘ water at 20 °C:
- ∘ Partition coefficient n-octanol/water (log value)
- Density and/or relative density
- ∘ Density at 20 °C:
- Relative density
- Vapour density
- ◇ Particle characteristics

See section 3.

Solid

Not determined.

Characteristic

Not determined.

42.1-43.4 °C

Product is not flammable.

0,8 Vol % (2216-51-5 L-Menthol)

7 Vol % (2216-51-5 L-Menthol)

>100 °C

405 °C (2216-51-5 L-Menthol)

Not determined.

Mixture is non-polar/aprotic.

0,431 g/l

Not miscible or difficult to mix.

Not determined.

1 g/cm<sup>3</sup>

Not determined.

Not applicable.

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Void

Void

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#### 9.2 Other information

⋄ Appearance:

⋄ Form: Solid

 Important information on protection of health and environment, and on safety.

Ignition temperature: Not determined.
 Explosive properties: Not determined.
 VOC (EC) 0,00 %
 Evaporation rate Not applicable.

Information with regard to physical hazard classes

 Explosives Void ∘ Flammable gases Void ⋄ Aerosols Void Oxidising gases Void ⋄ Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Void Oxidising liquids Oxidising solids Void ○ Organic peroxides Void

# . SECTION 10: Stability and reactivity

- ∘ 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability

Corrosive to metals

Desensitised explosives

- ∘ Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- ◆ 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### . SECTION 11: Toxicological information

- ∘ 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

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Oral LD50 2.500 mg/kg (rat)

Dermal LD50 >5.000 mg/kg (rabbit)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.

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- Aspiration hazard Based on available data, the classification criteria are not met.
- ∘ 11.2 Information on other hazards
- Endocrine disrupting properties
- Substance is not listed.

## . SECTION 12: Ecological information

- ↑ 12.1 Toxicity
- Aquatic toxicity:

#### 2216-51-5 L-Menthol

LC50/96 h 22 mg/l (fish)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- ∘ 12.4 Mobility in soil No further relevant information available.
- ∘ 12.5 Results of PBT and vPvB assessment
- ∘ PBT: Not applicable.
- ∘ vPvB: Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- Remark: Harmless to fish up to the tested concentration
- ⋄ Additional ecological information:
- ⋄ General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

# . SECTION 13: Disposal considerations

- ∘ 13.1 Waste treatment methods
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

# . SECTION 14: Transport information

⋄ 14.1 UN number or ID number

⋄ ADR, ADN, IMDG, IATA Void

○ 14.2 UN proper shipping name

◇ ADR, ADN, İMDG, İATA Void

◊ 14.3 Transport hazard class(es)

⋄ ADR, ADN, IMDG, IATA

◇ Class Void

∘ 14.4 Packing group

⋄ ADR, IMDG, IATA Void

∘ 14.5 Environmental hazards:

⋄ Marine pollutant: No

∘ 14.6 Special precautions for user Not applicable.

∘ 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

♦ UN "Model Regulation": Void

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#### . SECTION 15: Regulatory information

∘ 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind nicht zutreffend.

ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind nicht zutreffend.

- Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.
- ⋄ Hazard pictograms



GHS07

- ⋄ Signal word Warning
- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.

- Directive 2012/18/EU
- Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment –
   Annex II

Substance is not listed.

- ∘ REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug
precursors

Substance is not listed.

- National regulations:
- Waterhazard class: Klasse B (Self-assessment)
- ◆ 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### . SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Regulatory Affairs
- ∘ Contact: Dr. Maja Zippel
- Date of previous version: 14.08.2024
- Version number of previous version: 101
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* Data compared to the previous version altered.