

Safety data sheet
according to ChemV 2015 - SR 813.11

Printing date 26.03.2019

Version 89

Revision: 26.03.2019

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

◊ **1.1 Product identifier**

◊ Trade name: **Menthol ind. EuAB (WHO-GMP) / 06-5569**

◊ 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.de

◊ **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 Chemical characterisation: Substances**

◊ CAS No. Description

2216-51-5 L-Menthol

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- ◊ Identification number(s)
- ◊ EC number: 218-690-9

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. 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 item 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.

. SECTION 8: Exposure controls/personal protection

- ◊ **Additional information about design of technical facilities:** No further data; see item 7.

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◊ **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**

- ◊ *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.*
- ◊ *Protection of hands:*
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*
The multichemical-resistant glove Barrier 02-100 is recommended.
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 protection: Tightly sealed goggles*

. SECTION 9: Physical and chemical properties

◊ **9.1 Information on basic physical and chemical properties**

- ◊ *General Information*
- ◊ *Appearance:*
Form: Solid
Colour: Not determined.
- ◊ *Odour: Characteristic*
- ◊ *Odour threshold: Not determined.*
- ◊ *pH-value: Not applicable.*
- ◊ *Melting point/freezing point: 42,1-43,4 °C*
- ◊ *Flash point: >100 °C*
- ◊ *Flammability (solid, gas): Product is not flammable.*
- ◊ *Ignition temperature: 405 °C*
- ◊ *Decomposition temperature: Not determined.*
- ◊ *Auto-ignition temperature: Not determined.*
- ◊ *Explosive properties: Not determined.*
- ◊ *Explosion limits:*
Lower: 0,8 Vol %
Upper: 7 Vol %
- ◊ *Density at 20 °C: 1 g/cm³*
- ◊ *Relative density: Not determined.*
- ◊ *Vapour density: Not applicable.*
- ◊ *Evaporation rate: Not applicable.*
- ◊ *Solubility in / Miscibility with water at 20 °C: 0,431 g/l*
Not miscible or difficult to mix.
- ◊ *Partition coefficient: n-octanol/water: Not determined.*

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- ◊ VOC (EC) 0,00 %
- ◊ **9.2 Other information** No further relevant information available.

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. SECTION 10: Stability and reactivity

- ◊ **10.1 Reactivity** No further relevant information available.
- ◊ **10.2 Chemical stability**
- ◊ *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 toxicological effects**
- ◊ *Acute toxicity Based on available data, the classification criteria are not met.*
- ◊ *LD/LC50 values relevant for classification:*
2216-51-5 L-Menthol
Oral LD50 2.500 mg/kg (rat)
Dermal LD50 >5.000 mg/kg (rabbit)
- ◊ *Primary irritant effect:*
- ◊ *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.*
- ◊ *CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)*
- ◊ *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.*
- ◊ *Aspiration hazard Based on available data, the classification criteria are not met.*

. 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.
- ◊ *Ecotoxicological effects:*
- ◊ *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.
- ◊ **12.5 Results of PBT and vPvB assessment**
- ◊ *PBT: Not applicable.*
- ◊ *vPvB: Not applicable.*

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◊ **12.6 Other adverse effects** No further relevant information available.

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. 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**
- ◊ ADR, ADN, IMDG, IATA
- ◊ **14.2 UN proper shipping name**
- ◊ ADR, ADN, IMDG, IATA
- ◊ **14.3 Transport hazard class(es)**
- ◊ ADR, ADN, IMDG, IATA
- ◊ Class
- ◊ **14.4 Packing group**
- ◊ ADR, IMDG, IATA
- ◊ **14.5 Environmental hazards:**
- ◊ Marine pollutant:
- ◊ **14.6 Special precautions for user**
- ◊ **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
- ◊ UN "Model Regulation":

Void

Void

Void

Void

No

Not applicable.

Not applicable.

Void

. SECTION 15: Regulatory information

- ◊ **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- ◊ 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.
- ◊ **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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. 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*
- ◊ *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)*
 - ICAO: International Civil Aviation Organisation*
 - ADR: Accord européen sur le transport 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*
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2*
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

CH/GB