

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.12.2012

Version 126

Revision: 07.12.2012




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

- ◊ **Product identifier**
- ◊ Trade name: **Mint oil**
- ◊ Article number: P0122029
- ◊ Registration number -
- ◊ Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- ◊ Application of the substance / the preparation Flavour/Fragrance
- ◊ **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
- ◊ Emergency telephone number: ++49-40-54.77.99.56 WAKO

2. Hazards identification

- ◊ **Classification of the substance or mixture**
- ◊ Classification according to Regulation (EC) No 1272/2008
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- ◊ Classification according to Directive 67/548/EEC or Directive 1999/45/EC
Xn; Harmful
R65: Harmful: may cause lung damage if swallowed.
Xi; Irritant
R36/38: Irritating to eyes and skin.
Xi; Sensitising
R43: May cause sensitisation by skin contact.
N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- ◊ Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- ◊ Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- ◊ **Label elements**
- ◊ Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- ◊ Hazard pictograms
  
GHS07 GHS08 GHS09
- ◊ Signal word **Danger**
- ◊ Hazard-determining components of labelling:
DIPENTENE
beta-Pinene
alpha-Pinene

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- ◊ **Hazard statements**
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H317 May cause an allergic skin reaction.
 - H304 May be fatal if swallowed and enters airways.
 - H411 Toxic to aquatic life with long lasting effects.
- ◊ **Precautionary statements**
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P321 Specific treatment (see on this label).
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- ◊ **Other hazards**
- ◊ Results of PBT and vPvB assessment
- ◊ PBT: Not applicable.
- ◊ vPvB: Not applicable.

3. Composition/information on ingredients

- ◊ **Chemical characterization: Mixtures**
- ◊ CAS-No: 68917-18-0
- ◊ Description: Mixture of substances listed below with nonhazardous additions.
- ◊ **Dangerous components:**

| | | |
|-------------------|---|-----------|
| CAS: 89-80-5 | Menthone | 25-49,99% |
| EINECS: 201-941-1 | Aquatic Chronic 3, H412 | |
| CAS: 138-86-3 | DIPENTENE | 5-9,99% |
| EINECS: 205-341-0 | Xn R65; Xi R38; Xi R43; N R50/53 | |
| | R10 | |
| | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317 | |
| CAS: 18172-67-3 | beta-Pinene | 2,5-5% |
| EINECS: 242-060-2 | Xn R65; Xi R38; Xi R43 | |
| | R10 | |
| | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317 | |
| CAS: 7785-26-4 | alpha-Pinene | 2,5-5% |
| EINECS: 232-077-3 | Xn R65; Xi R43 | |
| | R10 | |
| | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317 | |
| CAS: 89-79-2 | l-Isopulegol | 1-2,49% |
| EINECS: 201-940-6 | Xn R22 | |
| | Acute Tox. 4, H302 | |
- ◊ Additional information: For the wording of the listed risk phrases refer to section 16.

4. First aid measures

- ◊ **Description of first aid measures**
- ◊ General information: Immediately remove any clothing soiled by the product.
- ◊ After inhalation:
 - Supply fresh air and to be sure call for a doctor.
 - 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.

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- ◊ *Information for doctor:*
- ◊ *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- ◊ *Indication of any immediate medical attention and special treatment needed* No further relevant information available.

5. Firefighting measures

- ◊ **Extinguishing media**
- ◊ *Suitable extinguishing agents:* CO₂, sand, extinguishing powder. Do not use water.
- ◊ *For safety reasons unsuitable extinguishing agents:* Water
- ◊ **Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.
- ◊ **Advice for firefighters**
- ◊ *Protective equipment:* No special measures required.

6. Accidental release measures

- ◊ **Personal precautions, protective equipment and emergency procedures** Not required.
- ◊ **Environmental precautions:**
- ◊ *Do not allow product to reach sewage system or any water course.*
- ◊ *Inform respective authorities in case of seepage into water course or sewage system.*
- ◊ *Do not allow to enter sewers/ surface or ground water.*
- ◊ **Methods and material for containment and cleaning up:**
- ◊ *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
- ◊ *Dispose contaminated material as waste according to item 13.*
- ◊ *Treat with 2 % sodium hydroxide solution.*
- ◊ *Ensure adequate ventilation.*
- ◊ **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.*

7. Handling and storage

- ◊ **Handling:**
- ◊ *Precautions for safe handling* Prevent formation of aerosols.
- ◊ *Information about fire - and explosion protection:* No special measures required.
- ◊ **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.
- ◊ **Specific end use(s)** No further relevant information available.

8. Exposure controls/personal protection

- ◊ **Additional information about design of technical facilities:** No further data; see item 7.
- ◊ **Control parameters**
- ◊ *Ingredients with limit values that require monitoring at the workplace:*
- ◊ *The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*
- ◊ *Additional information:* The lists valid during the making were used as basis.
- ◊ **Exposure controls**
- ◊ *Personal protective equipment:*
- ◊ *General protective and hygienic measures:*
- ◊ *Keep away from foodstuffs, beverages and feed.*

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- 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 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - The multichemical-resistant glove Barrier 02-100 is recommended.
 - ◊ Penetration time of glove material
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - ◊ Eye protection:
 - Safety glasses
 - Tightly sealed goggles

9. Physical and chemical properties

◊ Information on basic physical and chemical properties

◊ General Information

◊ Appearance:

Form: Fluid

Colour: Yellowish

◊ Odour: Characteristic

◊ Odour threshold: Not determined.

◊ pH-value: Not determined.

◊ Melting point/Melting range: Undetermined.

◊ Flash point: 85 °C

◊ Flammability (solid, gaseous): Not applicable.

◊ Ignition temperature:

Decomposition temperature: Not determined.

◊ Self-igniting: Not determined.

◊ Danger of explosion: Not determined.

◊ Explosion limits:

Lower: Not determined.

Upper: Not determined.

◊ Density at 20 °C: 0,894 g/cm³

◊ Relative density: Not determined.

◊ Vapour density: Not determined.

◊ Evaporation rate: Not determined.

◊ Solubility in / Miscibility with water:

Not miscible or difficult to mix.

◊ Partition coefficient (n-octanol/water): Not determined.

◊ Other information: No further relevant information available.

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10. Stability and reactivity

- ◊ **Reactivity**
- ◊ **Chemical stability**
- ◊ **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- ◊ **Possibility of hazardous reactions** No dangerous reactions known.
- ◊ **Conditions to avoid** No further relevant information available.
- ◊ **Incompatible materials:** No further relevant information available.
- ◊ **Hazardous decomposition products:** No dangerous decomposition products known.

11. Toxicological information

- ◊ **Information on toxicological effects**
- ◊ **Acute toxicity:**
- ◊ **Primary irritant effect:**
- ◊ **on the skin:** Irritant to skin and mucous membranes.
- ◊ **on the eye:** Irritating effect.
- ◊ **Sensitization:** Sensitization possible through skin contact.
- ◊ **Additional toxicological information:**
- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:*
- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.*
- Corrosive
- Irritant
- In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with high danger of central respiratory arrest.*
- In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with the danger of central respiratory arrest.*
- Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.*

12. Ecological information

- ◊ **Toxicity**
- ◊ **Aquatic toxicity:** No further relevant information available.
- ◊ **Persistence and degradability** No further relevant information available.
- ◊ **Behaviour in environmental systems:**
- ◊ **Bioaccumulative potential** No further relevant information available.
- ◊ **Mobility in soil** No further relevant information available.
- ◊ **Ecotoxicological effects:**
- ◊ **Remark:** Toxic for fish
- ◊ **Additional ecological information:**
- ◊ **General notes:**
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water*
- Do not allow product to reach ground water, water course or sewage system.*
- Danger to drinking water if even small quantities leak into the ground.*
- Also poisonous for fish and plankton in water bodies.*
- Toxic for aquatic organisms*
- ◊ **Results of PBT and vPvB assessment**
- ◊ **PBT:** Not applicable.
- ◊ **vPvB:** Not applicable.
- ◊ **Other adverse effects** No further relevant information available.

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13. Disposal considerations

- ◊ **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.

14. Transport information

- ◊ **UN-Number**
- ◊ ADR, IMDG, IATA UN3082
- ◊ **UN proper shipping name**
- ◊ ADR UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE)
- ◊ IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE), MARINE POLLUTANT
- ◊ IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE)
- ◊ **Transport hazard class(es)**
- ◊ ADR
- ◊ Class 9 (M6) Miscellaneous dangerous substances and articles.
- ◊ Label 9
-
- ◊ IMDG, IATA
- ◊ Class 9 Miscellaneous dangerous substances and articles.
- ◊ Label 9
- ◊ **Packing group**
- ◊ ADR, IMDG, IATA III
- ◊ **Environmental hazards:**
- ◊ Marine pollutant: Product contains environmentally hazardous substances: DIPENTENE
Yes
Symbol (fish and tree)
- ◊ Special marking (ADR): Symbol (fish and tree)
- ◊ Special marking (IATA): Symbol (fish and tree)
- ◊ **Special precautions for user** Warning: Miscellaneous dangerous substances and articles.
- ◊ Danger code (Kemler): 90
- ◊ EMS Number: F-A, S-F
- ◊ **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- ◊ **Transport/Additional information:**
-
- ◊ ADR
- ◊ Limited quantities (LQ) 5L
- ◊ Transport category 3
- ◊ Tunnel restriction code E
- ◊ **UN "Model Regulation":** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE), 9, III

15. Regulatory information

- ◊ **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- ◊ Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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◊ Hazard pictograms



GHS07 GHS08 GHS09

◊ Signal word *Danger*

◊ Hazard-determining components of labelling:

*DIPENTENE**beta-Pinene**alpha-Pinene*

◊ Hazard statements

*H315 Causes skin irritation.**H319 Causes serious eye irritation.**H317 May cause an allergic skin reaction.**H304 May be fatal if swallowed and enters airways.**H411 Toxic to aquatic life with long lasting effects.*

◊ Precautionary statements

*P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P321 Specific treatment (see on this label).**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*◊ **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**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.

◊ Relevant phrases

*H226 Flammable liquid and vapour.**H302 Harmful if swallowed.**H304 May be fatal if swallowed and enters airways.**H315 Causes skin irritation.**H317 May cause an allergic skin reaction.**H400 Very toxic to aquatic life.**H410 Very toxic to aquatic life with long lasting effects.**H412 Harmful to aquatic life with long lasting effects.**R10 Flammable.**R22 Harmful if swallowed.**R38 Irritating to skin.**R43 May cause sensitisation by skin contact.**R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**R65 Harmful: may cause lung damage if swallowed.*◊ **Department issuing MSDS:** 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 Organization**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 Harmonized System of Classification and Labelling of Chemicals*◊ * **Data compared to the previous version altered.**