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Safety data sheet

according to ChemV 2015 - SR 813.11

Printing date 01.10.2018 Version 58 Revision: 01.10.2018

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

- ∘ 1.1 Product identifier
- ∘ Trade name: Salbeiöl PH 11 / 01-5750
- ⋄ Article number: P0128228
- Registration number -
- 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

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 2 H371 May cause damage to the lung. Route of exposure: Inhalation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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









GHS02 GHS07 GHS08 GHS09

- Signal word Danger
- Hazard-determining components of labelling:

Thujon

Eucalyptol

Bornan-2-on

I-.alpha.-Pinene

DIPENTENE

beta-Pinene

3,7-Dimethyl-1,6-octadien-3-ol

4-Methyliden-1-propan-2-ylbicyclo[3.1.0]hexan

Terpinolene

3,7-Dimethylocta-2,6-dien-1-ole

Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H371 May cause damage to the lung. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

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P330 Rinse mouth.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P362+P364 Take off contaminated clothing and wash it before reuse.

∘ Additional information: For the wording of the listed hazard phrases refer to section 16.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

○ 2.3 Other hazards

⋄ Results of PBT and vPvB assessment

∘ PBT: Not applicable. ∘ vPvB: Not applicable.

. SECTION 3: Composition/information on ingredients

 3.2 Chemical characterisation: Mixtures CAS-No: 97952-71-1 EINECS-No: 308-365-0 Description: Mixture of substances listed below with nonhazardous additions. 	
◇ Dangerous components:	
CAS: 546-80-5 Thujon EINECS: 208-912-2 Acute Tox. 4, H302	>25-50%
CAS: 76-22-2 Bornan-2-on	>10-20%
EINECS: 200-945-0 Flam. Sol. 1, H228; STOT SE 2, H371; Acute Tox. 4, H302; Acute Tox. 4, H332	40.000/
CAS: 470-82-6 Eucalyptol EINECS: 207-431-5 Flam. Liq. 3, H226; Skin Sens. 1B, H317	>10-20%
CAS: 79-92-5 Camphene	>5-<10%
EINECS: 201-234-8 Flam. Sol. 1, H228; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319	
CAS: 7785-26-4 IalphaPinene EINECS: 232-077-3 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin	>2,5-5%
Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 507-70-0 Borneol	>2,5-5%
EINECS: 208-080-0 Flam. Sol. 1, H228 CAS: 138-86-3 DIPENTENE	>1 <0 F9/
EINECS: 205-341-0 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	<i>≥</i> 1-<2,5%
CAS: 18172-67-3 beta-Pinene	≥1-<2,5%
EINECS: 242-060-2 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: 98-55-5 alpha-Terpineol	1-2,5%
EINECS: 202-680-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319 CAS: 78-70-6 3.7-Dimethyl-1.6-octadien-3-ol	> 0 1 -10/
CAS: 78-70-6 3,7-Dimethyl-1,6-octadien-3-ol EINECS: 201-134-4 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	≥0,1-<1%
CAS: 3387-41-5 4-Methyliden-1-propan-2-ylbicyclo[3.1.0]hexan	≥0,1-<1%
Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 586-62-9 Terpinolene FINECS: 209-578-0 Flore Line 3, H336: App. Toy. 1, H304: Aquetic Acute 1, H400: Aquetic Chronic 1, H410: Skin	≥0,1-<0,25%
EINECS: 209-578-0 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	
CAS: 106-24-1 3,7-Dimethylocta-2,6-dien-1-ole	≥0,1-<1%
EINECS: 203-377-1 Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	

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. SECTION 4: First aid measures

⋄ 4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.
- After swallowing: 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.
- 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

Wear protective equipment. Keep unprotected persons away.

∘ 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

∘ 6.3 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.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

• 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** Ensure good ventilation/exhaustion at the workplace.
- ∘ Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- ∘ 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: 3

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• 7.3 Specific end use(s) No further relevant information available.

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. SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- ⋄ 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

76-22-2 Bornan-2-on

MAK (Switzerland) Long-term value: 13 mg/m³, 2 ppm

· 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.

Store protective clothing separately.

- 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.
- 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:

Fluid Form: Colour: Yellowish Odour: Characteristic Odour threshold: Not determined. ∘ pH-value: Not determined. ⋄ Melting point/freezing point: Undetermined.

56 °C Flash point:

∘ Flammability (solid, gas): Not applicable. ⋄ Decomposition temperature: Not determined. ⋄ Auto-ignition temperature: Not determined. Explosive properties: Not determined.

· Explosion limits:

Not determined. Lower: Upper: Not determined. ∘ Density at 20 °C: 0,918 g/cm3 Relative density Not determined. Not determined. Vapour density Not determined. Evaporation rate

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Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.
 VOC (EC) 48.88 %

• 9.2 Other information
No further relevant information available.

. 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.
- 10.5 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

Harmful if swallowed.

⋄ LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 1.229 mg/kg

Inhalative LC50 61,7 mg/l

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation

May cause an allergic skin reaction.

- CMR effects (carcinogenity, 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

May cause damage to the lung. Route of exposure: Inhalation.

- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard

May be fatal if swallowed and enters airways.

. SECTION 12: Ecological information

- ↑ 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 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.
- Ecotoxical effects:
- ∘ Remark: Toxic for fish
- Additional ecological information:
- ⋄ General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

∘ 12.5 Results of PBT and vPvB assessment

- ∘ PBT: Not applicable.
- ⋄ vPvB: Not applicable.
- ◆ 12.6 Other adverse effects No further relevant information available.

. 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.

UN1993

PINENE)

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

. SECTION 14: Transport Informatio

⋄ADR, IMDG, IATA

⋄ 14.2 UN proper shipping name

⋄ 14.3 Transport hazard class(es)

⋄ ADR

∘ IMDG

◇IATA

Class

⋄ Label

∘ IMDG, IATA

◇ Class

⋄ Label ∘ 14.4 Packing group

⋄ ADR, IMDG, IATA

⋄ Marine pollutant:

⋄ Special marking (ADR):

⋄ 14.6 Special precautions for user

⋄ Danger code (Kemler): ⋄ EMS Number:

Stowage Category

◦ 14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code

⋄ Transport/Additional information:

⋄ Excepted quantities (ÉQ)

Transport category

Code: E1

F-E,S-E

Not applicable.

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

FLAMMABLE LIQUID, N.O.S. (1,8-Cineol, alpha-PINENE),

FLAMMABLE LIQUID, N.O.S. (1,8-Cineol, alpha-PINENE),

FLAMMABLE LIQUID, N.O.S. (containing 1,8-Cineol, alpha-

Product contains environmentally hazardous substances:

ENVIRONMENTALLY HAZARDOUS

MARINE POLLUTANT

3 (F1) Flammable liquids.

Camphene, alpha-Pinene

Symbol (fish and tree)

Symbol (fish and tree) Warning: Flammable liquids.

3 Flammable liquids.

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⋄ Tunnel restriction code D/E (Contd. of page 6)

5L ⋄ Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN 1993 FLAMMABLE LIQUID, N.O.S. (1,8-CINEOL, ALPHA-

◊ UN "Model Regulation":

PINENE), 3, III, ENVIRONMENTALLY HAZARDOUS

. 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 product is classified and labelled according to the CLP regulation.

⋄ Hazard pictograms







GHS02 GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:

Thujon Eucalyptol Bornan-2-on I-.alpha.-Pinene DIPENTENE beta-Pinene

3,7-Dimethyl-1,6-octadien-3-ol

4-Methyliden-1-propan-2-ylbicyclo[3.1.0]hexan

Terpinolene

3,7-Dimethylocta-2,6-dien-1-ole

Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H371 May cause damage to the lung. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P362+P364 Take off contaminated clothing and wash it before reuse.

P405

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

∘ Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

◇ REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

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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.

Relevant phrases

H226 Flammable liquid and vapour.

H228 Flammable solid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H371 May cause damage to the lung. Route of exposure: Inhalation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- Department issuing SDS: Regulatory Affairs
- Contact: Dr. Maja Zippel
- Abbreviations and acronyms:

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 ELINCS: European List of Notified 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

Flam. Liq. 3: Flammable liquids – Category 3 Flam. Sol. 1: Flammable solids – Category 1

Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation - Category 1B

STOT SE 2: Specific target organ toxicity (single exposure) - Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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