

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.10.2015

Version 100

Revision: 06.10.2015

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

#### ◇ 1.1 Product identifier

◇ Trade name: **Sage oil**

◇ Article number: P0114240

◇ 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 Irrit. 2 H315 Causes skin irritation.

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

STOT SE 2 H371 May cause damage to organs.

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

1,8-Cineol

Bornan-2-on

alpha-Pinene

◇ Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H371 May cause damage to organs.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

◇ Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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

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

P405 Store locked up.

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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  | >25-50% |
| EINECS: 208-912-2 | Acute Tox. 4, H302  |         |
| CAS: 76-22-2      | Bornan-2-on   | >20-25% |
| EINECS: 200-945-0 | Flam. Sol. 1, H228; STOT SE 2, H371; Acute Tox. 4, H332   |         |
| CAS: 470-82-6     | 1,8-Cineol  | >10-20% |
| EINECS: 207-431-5 | Flam. Liq. 3, H226; Skin Sens. 1B, H317   |         |
| 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    | alpha-Pinene  | >5-10%  |
| EINECS: 232-077-3 | 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: 138-86-3     | DIPENTENE   | >2,5-5% |
| 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 |         |
| CAS: 87-44-5      | beta-Caryophyllene  | >2,5-5% |
| EINECS: 201-746-1 | Asp. Tox. 1, H304   |         |
| CAS: 98-55-5      | p-Menth-1-en-8-ol   | 1-2,5%  |
| EINECS: 202-680-6 | Skin Irrit. 2, H315; Eye Irrit. 2, H319   |         |
| 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: 99-87-6      | p-Cymene  | <1%     |
| EINECS: 202-796-7 | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411  |         |
| CAS: 99-86-5      | alpha-Terpinene   | <1%     |
| EINECS: 202-795-1 | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H302  |         |
- ◇ Additional information: For the wording of the listed risk phrases refer to section 16.

### . SECTION 4: First aid measures

◇ **4.1 Description of first aid measures**

◇ General information:

Immediately remove any clothing soiled by the product.

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. If symptoms persist, consult a doctor.

◇ After swallowing:

Call for a doctor immediately.

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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: CO<sub>2</sub>, 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** During heating or in case of fire poisonous gases are produced.
- ◊ **5.3 Advice for firefighters**
- ◊ Protective equipment: Mouth respiratory protective device.

### . 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:

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.

#### ◊ 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.  
Treat with 2 % sodium hydroxide solution.  
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 Prevent formation of aerosols.

#### ◊ Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

#### ◊ 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.
- ◊ **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:

#### 76-22-2 Bornan-2-on

TWA Short-term value: 18 mg/m<sup>3</sup>Long-term value: 12 mg/m<sup>3</sup>

- ◊ 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.

Avoid contact with the eyes and skin.

- ◊ Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- ◊ 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: Tightly sealed goggles

## SECTION 9: Physical and chemical properties

### 9.1 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: 58 °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: 0,918 g/cm<sup>3</sup>

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- ◊ *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.
- ◊ **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.
- ◊ **10.4 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*  
Harmful if swallowed.
- ◊ *LD/LC50 values relevant for classification:*  
**ATE (Acute Toxicity Estimates)**  
Oral LD50 1186 mg/kg  
Inhalative LC50 51,3 mg/l
- ◊ *Primary irritant effect:*
- ◊ *Skin corrosion/irritation*  
Causes skin irritation.
- ◊ *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 (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*  
May cause damage to organs.
- ◊ *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.
- ◊ *Ecotoxicological effects:*
- ◊ *Remark:* Toxic for fish

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

### . SECTION 14: Transport information

- ◊ **14.1 UN-Number**
- ◊ **ADR, IMDG, IATA** UN1993
- ◊ **14.2 UN proper shipping name**
- ◊ **ADR** UN 1993 FLAMMABLE LIQUID, N.O.S. (1,8-Cineol, alpha-PINENE), ENVIRONMENTALLY HAZARDOUS
- ◊ **IMDG** FLAMMABLE LIQUID, N.O.S. (1,8-Cineol, alpha-PINENE), MARINE POLLUTANT
- ◊ **IATA** FLAMMABLE LIQUID, N.O.S. (1,8-Cineol, alpha-PINENE)
- ◊ **14.3 Transport hazard class(es)**
- ◊ **ADR**
- ◊ **Class** 3 (F1) Flammable liquids.
- ◊ **Label** 3

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- ◊ **IMDG, IATA**
- ◊ **Class** 3 Flammable liquids.
- ◊ **Label** 3
- ◊ **14.4 Packing group**
- ◊ **ADR, IMDG, IATA** III
- ◊ **14.5 Environmental hazards:**
- ◊ **Marine pollutant:** Product contains environmentally hazardous substances:  
 Camphene, alpha-Pinene  
 Yes  
 Symbol (fish and tree)  
 Symbol (fish and tree)
- ◊ **Special marking (ADR):** Warning: Flammable liquids.
- ◊ **14.6 Special precautions for user**
- ◊ **Danger code (Kemler):** 30
- ◊ **EMS Number:** F-E, S-E
- ◊ **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

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- ◊ **Transport/Additional information:**
- ◊ **ADR**
- ◊ **Limited quantities (LQ)** 5L
- ◊ **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

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◊ Transport category	3
◊ Tunnel restriction code	D/E
-----	
◊ IMDG	
◊ Limited quantities (LQ)	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-PINENE), 3, III, ENVIRONMENTALLY HAZARDOUS
◊ UN "Model Regulation":	

### . 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



- ◊ Signal word *Danger*
- ◊ Hazard-determining components of labelling:  
Thujon  
1,8-Cineol  
Bornan-2-on  
alpha-Pinene
- ◊ Hazard statements  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H371 May cause damage to organs.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.
- ◊ Precautionary statements  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P405 Store locked up.  
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.
- ◊ **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.

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H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H371 May cause damage to organs.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.

◇ 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 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

ELINCS: European List of Notified Chemical Substances

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

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, Hazard Category 3

Flam. Sol. 1: Flammable solids, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B

STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

◇ \* Data compared to the previous version altered.