

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.02.2024

Version 60 (replaces version 59)

Revision: 22.02.2024

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

◊ **1.1 Product identifier**

◊ Trade name: **Sternanisöl rekt. EuAB / 01-3450**

◊ Article number: P0140037

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

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.

Aquatic Chronic 3 H412 Harmful 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



GHS07 GHS08

◊ Signal word Warning

◊ Hazard-determining components of labelling:

trans-Anethole

4-Allylanisole

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

(R)-p-mentha-1,8-diene

(R)-5-Isopropyl-2-methylcyclohexa-1,3-dien

alpha-Pinene

beta-Caryophyllene

3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene

Eucalyptol

trans-Nerolidol

◊ Hazard statements

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

◊ Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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

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- ◊ **2.3 Other hazards**
- ◊ Results of PBT and vPvB assessment
- ◊ PBT: Not applicable.
- ◊ vPvB: Not applicable.

. SECTION 3: Composition/information on ingredients

◊ **3.2 Mixtures**

◊ Description: Mixture of substances listed below with nonhazardous additions.

◊ Dangerous components:

CAS: 4180-23-8	<i>trans</i> -Anethole	>50-100%
EINECS: 224-052-0	Skin Irrit. 2, H315;	
CAS: 140-67-0	4-Allylanisole	>5-<10%
EINECS: 205-427-8	Muta. 2, H341; Carc. 2, H351; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 78-70-6	3,7-Dimethyl-1,6-octadien-3-ol	1-2,5%
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	≥0,25-<1%
EINECS: 227-813-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 substance with a Community workplace exposure limit	
CAS: 4221-98-1	(R)-5-Isopropyl-2-methylcyclohexa-1,3-dien	≥0,25-<1%
EINECS: 224-167-6	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1B, H317	
CAS: 80-56-8	alpha-Pinene	≥0,25-<1%
EINECS: 201-291-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317 substance with a Community workplace exposure limit	
CAS: 87-44-5	beta-Caryophyllene	≥0,1-<1%
EINECS: 201-746-1	Asp. Tox. 1, H304; Skin Sens. 1B, H317	
CAS: 13466-78-9	3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene	≥0,1-<0,25%
EINECS: 236-719-3	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 470-82-6	Eucalyptol	≥0,1-<1%
EINECS: 207-431-5	Flam. Liq. 3, H226; Skin Sens. 1B, H317	
CAS: 40716-66-3	<i>trans</i> -Nerolidol	≥0,1-<0,25%
EINECS: 255-053-4	Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1B, H317	
CAS: 123-35-3	Myrcene	≥0,1-<0,25%
EINECS: 204-622-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	

◊ Additional information: For the wording of the listed hazard 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.

◊ 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: If symptoms persist consult doctor.

◊ **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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◊ **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** During heating or in case of fire poisonous gases are produced.

◊ **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 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 section 13.

Treat with 2 % sodium hydroxide solution.

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**

Open and handle receptacle with care.

Prevent formation of aerosols.

◊ Information about fire - and explosion protection: 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.

◊ Storage class: 10

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

. SECTION 8: Exposure controls/personal protection

◊ **8.1 Control parameters**

◊ Ingredients with limit values that require monitoring at the workplace:

5989-27-5 (R)-p-mentha-1,8-diene

MAK Short-term value: 80 mg/m³, 14 ppm

Long-term value: 40 mg/m³, 7 ppm

S SSc;

80-56-8 alpha-Pinene

MAK Short-term value: 224 mg/m³, 40 ppm

Long-term value: 112 mg/m³, 20 ppm

H S;

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- ◊ *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.
Store protective clothing separately.
- ◊ *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*
- ◊ *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/face protection Goggles recommended during refilling*

. SECTION 9: Physical and chemical properties

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

- ◊ *General Information*
- ◊ *Physical state* Fluid
- ◊ *Colour:* Colourless to yellow tint
- ◊ *Odour:* Characteristic
- ◊ *Odour threshold:* Not determined.
- ◊ *Melting point/freezing point:* Undetermined.
- ◊ *Flammability* Not applicable.
- ◊ *Lower and upper explosion limit*
- ◊ *Lower:* Not determined.
- ◊ *Upper:* Not determined.
- ◊ *Flash point:* 96 °C
- ◊ *Decomposition temperature:* Not determined.
- ◊ *pH* Mixture is non-polar/aprotic.
- ◊ *Solubility*
- ◊ *water:* Not miscible or difficult to mix.
- ◊ *Partition coefficient n-octanol/water (log value)* Not determined.
- ◊ *Density and/or relative density*
- ◊ *Density at 20 °C:* 0,98 g/cm³
- ◊ *Relative density* Not determined.
- ◊ *Vapour density* Not determined.

◊ **9.2 Other information**

- ◊ *Appearance:*
- ◊ *Form:* Fluid
- ◊ *Important information on protection of health and environment, and on safety.*
- ◊ *Ignition temperature:* Not determined.
- ◊ *Explosive properties:* Not determined.
- ◊ *Solvent separation test:*
- ◊ *VOC (EC)* 93,91 %
- ◊ *Evaporation rate* Not determined.
- ◊ *Information with regard to physical hazard classes*
- ◊ *Explosives* Void
- ◊ *Flammable gases* Void
- ◊ *Aerosols* Void

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◊ 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
◊ Oxidising liquids	Void
◊ Oxidising solids	Void
◊ Organic peroxides	Void
◊ Corrosive to metals	Void
◊ Desensitised explosives	Void

. 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 hazard classes as defined in Regulation (EC) No 1272/2008**
- ◊ **Acute toxicity** Based on available data, the classification criteria are not met.
- ◊ **LD/LC50 values relevant for classification:**
- ◊ **ATE (Acute Toxicity Estimates)**
- ◊ **Oral LD50** >31.074 mg/kg (rat)
- ◊ **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.
- ◊ **Germ cell mutagenicity** Suspected of causing genetic defects.
- ◊ **Carcinogenicity** Suspected of causing cancer.
- ◊ **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.
- ◊ **11.2 Information on other hazards**
- ◊ **Endocrine disrupting properties**
- ◊ **None of the ingredients is listed.**

. 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.

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- ◊ **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.
- ◊ **12.7 Other adverse effects**
- ◊ Remark: Harmful to 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.
- Harmful to aquatic organisms



. 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
 - ◊ **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 Maritime transport in bulk according to IMO instruments**
 - ◊ UN "Model Regulation":
- 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**
 - 822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind zu beachten.
 - ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind zu beachten.
 - ◊ Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
 - ◊ Hazard pictograms
- 

 GHS07 GHS08
- ◊ Signal word Warning
 - ◊ Hazard-determining components of labelling:
 - trans-Anethole

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- 4-Allylanisole
3,7-Dimethyl-1,6-octadien-3-ol
(R)-p-mentha-1,8-diene
(R)-5-Isopropyl-2-methylcyclohexa-1,3-dien
alpha-Pinene
beta-Caryophyllene
3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene
Eucalyptol
trans-Nerolidol
- ◊ Hazard statements
 - H317 May cause an allergic skin reaction.
 - H341 Suspected of causing genetic defects.
 - H351 Suspected of causing cancer.
 - H412 Harmful to aquatic life with long lasting effects.
 - ◊ Precautionary statements
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 - P308+P313 IF exposed or concerned: Get medical advice/attention.
 - 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.
 - ◊ REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
 - ◊ DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
 - None of the ingredients is listed.
 - ◊ REGULATION (EU) 2019/1148
 - ◊ Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
 - None of the ingredients is listed.
 - ◊ Annex II - REPORTABLE EXPLOSIVES PRECURSORS
 - None of the ingredients is listed.
 - ◊ Regulation (EC) No 273/2004 on drug precursors
 - None of the ingredients is listed.
 - ◊ Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
 - None of the ingredients is listed.
 - ◊ National regulations:
 - ◊ Waterhazard class: Klasse A (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.
- ◊ 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.
 - H319 Causes serious eye irritation.
 - H341 Suspected of causing genetic defects.
 - H351 Suspected of causing cancer.
 - H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

- ◊ Department issuing SDS: Regulatory Affairs
- ◊ Contact: Dr. Maja Zippel
- ◊ Date of previous version: 22.09.2023
- ◊ Version number of previous version: 59
- ◊ 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 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

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

ATE: Acute toxicity estimate values

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

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

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity – 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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- ◊ * Data compared to the previous version altered.