

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

Printing date 01.08.2019

Version 26

Revision: 01.08.2019

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

◊ **1.1 Product identifier**

◊ Trade name: **Zimtrindenöl EuAB**

◊ Article number: S0100436

◊ 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

Acute Tox. 4 H312 Harmful in contact with skin.

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.

Carc. 1B H350 May cause 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 Danger

◊ Hazard-determining components of labelling:

Cinnamaldehyde

5-Allyl-1,3-benzodioxol

Eugenol

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

l.alpha.-Pinene

2H-1-Benzopyran-2-one

Cinnamyl alcohol

DIPENTENE

◊ Hazard statements

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

◊ Precautionary statements

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

P280 Wear protective gloves/protective clothing/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.

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P312 Call a POISON CENTER/doctor if you feel unwell.
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**

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

◊ Dangerous components:

CAS: 104-55-2	Cinnamaldehyde	>50-100%
EINECS: 203-213-9	Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317	
CAS: 97-53-0	Eugenol	>10-20%
EINECS: 202-589-1	Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 78-70-6	3,7-Dimethyl-1,6-octadien-3-ol	>5-<10%
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 7785-26-4	l- α -Pinene	\geq 0,25-<1%
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: 91-64-5	2H-1-Benzopyran-2-one	\geq 0,1-<1%
EINECS: 202-086-7	Acute Tox. 4, H302; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 104-54-1	Cinnamyl alcohol	\geq 0,1-<1%
EINECS: 203-212-3	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 94-59-7	5-Allyl-1,3-benzodioxol	\geq 0,1-<1%
EINECS: 202-345-4	Muta. 2, H341; Carc. 1B, H350; Acute Tox. 4, H302	
CAS: 138-86-3	DIPENTENE	\geq 0,1-<0,25%
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	

◊ 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.

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: 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.

◊ For safety reasons unsuitable extinguishing agents: Water with full jet

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- ◊ **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 item 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: 6.1 C
- ◊ **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.
- ◊ **8.1 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.
- ◊ **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.

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- ◊ **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:**
Safety glasses
Tightly sealed goggles

. SECTION 9: Physical and chemical properties

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

- ◊ **General Information**
- ◊ **Appearance:**
 - Form: Fluid
 - Colour: Orange
- ◊ **Odour:** Characteristic
- ◊ **Odour threshold:** Not determined.
- ◊ **pH-value:** Not determined.
- ◊ **Melting point/freezing point:** Undetermined.
- ◊ **Flash point:** 94 °C
- ◊ **Flammability (solid, gas):** Not applicable.
- ◊ **Decomposition temperature:** Not determined.
- ◊ **Auto-ignition temperature:** Not determined.
- ◊ **Explosive properties:** Not determined.
- ◊ **Explosion limits:**
 - Lower: Not determined.
 - Upper: Not determined.
- ◊ **Density at 20 °C:** 1,027 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.
- ◊ **VOC (EC)** 7,04 %
- ◊ **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.

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. SECTION 11: Toxicological information

◊ **11.1 Information on toxicological effects**

- ◊ Acute toxicity
Harmful in contact with skin.
- ◊ LD/LC50 values relevant for classification:
ATE (Acute Toxicity Estimates)
Dermal LD50 >1.764 mg/kg (rabbit)
- ◊ Primary irritant effect:
- ◊ Skin corrosion/irritation
Causes skin irritation.
- ◊ Serious eye damage/irritation
Causes serious eye irritation.
- ◊ 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
May cause 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.

. 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: 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
- ◊ **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.

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. 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**
 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 Danger
- ◊ Hazard-determining components of labelling:
 Cinnamaldehyde
 5-Allyl-1,3-benzodioxol
 Eugenol
 3,7-Dimethyl-1,6-octadien-3-ol
 l.-alpha.-Pinene
 2H-1-Benzopyran-2-one
 Cinnamyl alcohol
 DIPENTENE
- ◊ Hazard statements
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H350 May cause cancer.
 H412 Harmful to aquatic life with long lasting effects.
- ◊ Precautionary statements
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/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.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P405 Store locked up.

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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
- ◊ National regulations:
- ◊ Additional classification according to Decree on Hazardous Materials, Annex II: Carcinogenic hazardous material group III (dangerous).
- ◊ Information about limitation of use:
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
- ◊ 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.
 - H312 Harmful in contact with skin.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H341 Suspected of causing genetic defects.
 - H350 May cause cancer.
 - 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.
- ◊ 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
 - 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. 1A: Skin sensitisation – Category 1A
 - Skin Sens. 1B: Skin sensitisation – Category 1B
 - Muta. 2: Germ cell mutagenicity – Category 2
 - Carc. 1B: Carcinogenicity – Category 1B
 - 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- ◊ * Data compared to the previous version altered.