

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.08.2025

Version 162 (replaces version 161)

Revision: 12.08.2025

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

◊ **1.1 Product identifier**

◊ Trade name: **Zimtöl naturidentisch / 01-4150**

◊ Article number: P0124310

◊ Registration number -

◊ UFI: 5CMJ-H7JS-300A-45HE

◊ **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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

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

◊ Signal word Warning

◊ Hazard-determining components of labelling:

Cinnamal

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

Eugenol

beta-Caryophyllene

Eucalyptol

trans-Anethole

alpha-Pinene

(S)-p-Mentha-1,8-diene

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

◊ Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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 / 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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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 Mixtures**

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

◊ Dangerous components:

CAS: 104-55-2	Cinnamal	>50-100%
EINECS: 203-213-9	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	
CAS: 78-70-6	3,7-Dimethyl-1,6-octadien-3-ol	>2,5-5%
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 97-53-0	Eugenol	>2,5-5%
EINECS: 202-589-1	Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 470-82-6	Eucalyptol	1-2,5%
EINECS: 207-431-5	Flam. Liq. 3, H226; Skin Sens. 1B, H317	
CAS: 87-44-5	beta-Caryophyllene	1-2,5%
EINECS: 201-746-1	Asp. Tox. 1, H304; Skin Sens. 1B, H317	
CAS: 4180-23-8	trans-Anethole	≥1-<2,5%
EINECS: 224-052-0	Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 8000-41-7	Terpineol	1-2,5%
EINECS: 232-268-1	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 99-87-6	p-cymene	≥1-<2,5%
EINECS: 202-796-7	Flam. Liq. 3, H226; Acute Tox. 3, H331; Asp. Tox. 1, H304; Aquatic Chronic 2, H411	
	ATE: LD50 oral: 4.750 mg/kg	
	LC50 inhalative: 3 mg/l	
CAS: 80-56-8	alpha-Pinene	≥1-<2,5%
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	
	ATE: LD50 oral: 500 mg/kg	
	substance with a Community workplace exposure limit	
CAS: 5989-54-8	(S)-p-Mentha-1,8-diene	≥0,25-<1%
EINECS: 227-815-6	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Irrit. 2, H315; 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: 120-51-4	Benzyl benzoate	≥0,25-<1%
EINECS: 204-402-9	Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; Acute Tox. 4, H302	

◊ 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.

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- ◊ 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
- ◊ **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** Prevent formation of aerosols.
- ◊ Information about fire - and explosion protection: No special measures required.
- ◊ **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:
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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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;

◊ 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.

Avoid contact with the eyes and skin.

◊ Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

◊ 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

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.

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

Safety glasses

Tightly sealed goggles

. SECTION 9: Physical and chemical properties

◊ 9.1 Information on basic physical and chemical properties

◊ General Information

◊ Physical state

Liquid

◊ Colour:

Orange

◊ 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:

80 °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:

1,026 g/cm³

◊ Relative density

Not determined.

◊ Vapour density

Not determined.

◊ 9.2 Other information

◊ Appearance:

◊ Form:

Fluid

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- ◊ Important information on protection of health and environment, and on safety.
- ◊ Ignition temperature: Not determined.
- ◊ Explosive properties: Not determined.
- ◊ Solvent separation test:
- ◊ VOC (EC) 13,52 %
- ◊ Evaporation rate Not determined.
- ◊ Information with regard to physical hazard classes
- ◊ Explosives Void
- ◊ Flammable gases Void
- ◊ Aerosols Void
- ◊ 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 47.884 mg/kg
- ◊ Inhalative LC50 263 mg/l (ATE)
- ◊ 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.
- ◊ 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 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.

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- ◊ **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.
- ◊ **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, IMDG, IATA
 - ◊ **14.2 UN proper shipping name**
 - ◊ ADR, IMDG, IATA
 - ◊ **14.3 Transport hazard class(es)**
 - ◊ ADR, ADN, IMDG, IATA
 - ◊ Class
 - ◊ **14.4 Packing group**
 - ◊ ADR, IMDG, IATA
 - ◊ **14.5 Environmental hazards:**
 - ◊ **14.6 Special precautions for user**
 - ◊ **14.7 Maritime transport in bulk according to IMO instruments**
 - ◊ UN "Model Regulation":
- Void
- Void
- Void
- Void
- Not applicable.
- Not applicable.
- Not applicable.
- Void

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. SECTION 15: Regulatory information

- ◊ **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
822.115, Jugendarbeitsschutzverordnung - ArbZ 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind zu beachten.
ArbZ 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind nicht zutreffend.
- ◊ Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- ◊ Hazard pictograms



GHS07

- ◊ Signal word Warning
- ◊ Hazard-determining components of labelling:
Cinnamal
3,7-Dimethyl-1,6-octadien-3-ol
Eugenol
beta-Caryophyllene
Eucalyptol
trans-Anethole
alpha-Pinene
(S)-p-Mentha-1,8-diene
(R)-p-mentha-1,8-diene
- ◊ Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
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 / 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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
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)

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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.
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.
H331 Toxic if inhaled.
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.
H412 Harmful to aquatic life with long lasting effects.

◊ **Department issuing SDS: Regulatory Affairs**

◊ **Contact: Dr. Maja Zippel**

◊ **Date of previous version: 24.01.2025**

◊ **Version number of previous version: 161**

◊ **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
Acute Tox. 3: Acute toxicity – Category 3
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
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.**