FREY&LAU @ explore your senses

Page 1/8

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

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

. SECTION 1: Identification of the substance/mixture and of the company/undertaking
◦ 1.1 Product identifier
<ul> <li>Article number: P0115718</li> <li>Registration number -</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> <li>Application of the substance / the mixture Flavour/Fragrance</li> </ul>
<ul> <li>A.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier:</li> <li>Frey &amp; Lau GmbH</li> <li>Immenhacken 12, D-24558 Henstedt-Ulzburg</li> <li>Tel:++49-4193-9953 Fax: +49-4193-9955-80</li> </ul>
<ul> <li>Further information obtainable from: Sachkundige Person Frey + Lau info@freylau.de</li> <li>1.4 Emergency telephone number: ++49-40-54.77.99.56 WAKO</li> </ul>
. SECTION 2: Hazards identification
<ul> <li>◇ 2.1 Classification of the substance or mixture</li> <li>◇ Classification according to Regulation (EC) No 1272/2008</li> </ul>
Flam. Liq. 3 H226 Flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
<ul> <li>◇ 2.2 Label elements</li> <li>◇ Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.</li> <li>◇ Hazard pictograms</li> </ul>
CHS02 CHS07 CHS08 CHS09
◇ Signal word Danger
◦ Hazard-determining components of labelling: IalphaPinene beta-Pinene beta-Converbullance
beta-Caryophyllene Longifolene DIPENTENE Myrcene
Terpinolene 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene ◇ Hazard statements H226 Flammable liquid and vapour.
H315 Causes skin irritation. H317 May cause an allergic skin reaction.
H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see on this label).
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.
(Contd. on page 2)

**FREY&LAU** *Constant Series* 

Page 2/8

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

(Contd. of page 1)

#### Trade name: Terpentinöl rekt. Ph.Eur./ 01-6350

P405 P501 Store locked up. 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.

	nposition/information on ingredients		
<ul> <li>3.1 Chemical characterisation: Substances</li> <li>CAS No. Description 8006-64-2 Turpentine oil</li> <li>Identification number(s)</li> <li>EC number: 232-350-7</li> <li>Index number: 650-002-00-6</li> <li>3.2 Chemical characterisation: Mixtures</li> <li>CAS-No: 8006-64-2</li> <li>EINECS-No: 232-350-7</li> <li>Description: Mixture of substances listed below with nonhazardous additions.</li> </ul>			
◇ Dangerous compon	ents:		
	IalphaPinene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	>50-100%	
CAS: 18172-67-3 EINECS: 242-060-2	beta-Pinene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	>10-20%	
CAS: 87-44-5 EINECS: 201-746-1	beta-Caryophyllene Asp. Tox. 1, H304; Skin Sens. 1B, H317	>2,5-5%	
CAS: 99-87-6	p-Cymene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411	≥1-<2,5%	
CAS: 475-20-7	Longifolene Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	≥1-<2,5%	
CAS: 138-86-3	DIPENTENE 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: 79-92-5 EINECS: 201-234-8	Camphene Flam. Sol. 1, H228; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319	≥1-<2,5%	
CAS: 123-35-3	Myrcene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	≥0,1-<1%	
CAS: 586-62-9 EINECS: 209-578-0	Terpinolene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	<i>≥</i> 0,25-<1%	
CAS: 13466-78-9 EINECS: 236-719-3 ∘ Additional informatio	3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317 on: For the wording of the listed hazard phrases refer to section 16.	≥0,1-<1%	

#### . 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.

CH

FREY&LAU *explore your senses* 

Page 3/8

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

(Contd. of page 2)

Trade name: Terpentinöl rekt. Ph.Eur./ 01-6350

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. Then 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 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 7 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.

• 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

• 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.

(Contd. on page 4)

CH

FREY&LAU 69 explore your senses

Page 4/8

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

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

СН

#### Trade name: Terpentinöl rekt. Ph.Eur./ 01-6350

	(Contd. of page 3)
◦ 8.1 Control parameters ◊ Ingredients with limit values that require monitoring at the workplace:	
79-92-5 Camphene	
MAK Short-term value: 224 mg/m³, 40 ppm Long-term value: 112 mg/m³, 20 ppm H S;	
$^{\diamond}$ Additional information: The lists valid during the making were used as basis.	
<ul> <li>8.2 Exposure controls</li> <li>Personal protective equipment:</li> <li>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 skin. Avoid contact with the eyes and skin.</li> <li>Respiratory protection: Not required.</li> <li>Protection of hands: Protective gloves</li> </ul>	
The glove material has to be impermeable and resistant to the product/ the substance/ the p Selection of the glove material on consideration of the penetration times, rates of diffusion a • Material of gloves The multichemical-resistant glove Barrier 02-100 is recommended.	
<ul> <li>Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective glove</li> <li>Eye protection: Tightly sealed goggles</li> </ul>	es and has to be observed.

#### ° 9.1 Information on basic physical and chemical properties

<ul> <li>General Information</li> <li>Appearance:</li> </ul>	
Form:	Fluid
Colour: ◇ Odour:	Colourless to yellow tint Characteristic
<ul> <li>Odour threshold:</li> </ul>	Not determined.
∘pH-value: ∘Melting point/freezing point:	Not determined. -50 °C
<i>◇ Flash point:</i>	37 °C
∘ Flammability (solid, gas):	Not applicable.
◊ Ignition temperature:	220 °C
○ Decomposition temperature:	Not determined.
◇ Auto-ignition temperature:	Not determined.
◦ Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
◦ Explosion limits:	
Lower:	0,7 Vol %
Upper:	6 Vol %
<ul> <li>▷ Density at 20 °C:</li> <li>○ Density at an aits</li> </ul>	0,865 g/cm <sup>3</sup>
∘ Relative density ∘ Vapour density	Not determined. Not determined.
◊ Evaporation rate	Not determined.
	(Contd. on page 5)

FREY&LAU explore your senses

Page 5/8

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

#### Trade name: Terpentinöl rekt. Ph.Eur./ 01-6350

 Solubility in / Miscibility with water:

Not miscible or difficult to mix.

• Partition coefficient: n-octanol/water: Not determined.

◊ VOC (EC)

94.35 % 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 Based on available data, the classification criteria are not met.
- 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 (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 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

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:

Very toxic for fish

Toxic for fish

Very toxic for water fleas.

Toxic for water fleas

Very toxic for algae

Toxic for algae

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.

(Contd. on page 6)

## (Contd. of page 4)

explore your senses

**FREY&LAU** 

Page 6/8

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

(Contd. of page 5)

СН

Trade name: Terpentinöl rekt. Ph.Eur./ 01-6350

Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very 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			
<i>◇ADR, IMDG, IATA</i>	UN1993		
14.2 UN proper shipping name			
<i>∧ADR</i>	FLAMMABLE LIQUID, N.O.S. (alpha-PINENE, beta-Pinene), ENVIRONMENTALLY HAZARDOUS		
◇IMDG	FLAMMABLE LIQUID, N.O.S. (alpha-PINENE, beta-Pinene), MARINE POLLUTANT		
◇IATA	FLAMMABLE LIQUID, N.O.S. (containing alpha-PINENE, beta- Pinene)		
◦ 14.3 Transport hazard class(es)			
∧ADR			
	3 (F1) Flammable liquids.		
<i>◇Label</i>	3 ΄		
◇IMDG, IATA			
◊ Class	3 Flammable liquids.		
◇Label	3		
	-		
ADR, IMDG, IATA	<i>III</i>		
◊ 14.5 Environmental hazards:	Product contains environmentally hazardous substances: alpha-		
	Pinene		
∘Marine pollutant:	Yes		
	Symbol (fish and tree)		
◊ Special marking (ADR):	Symbol (fish and tree)		
<ul> <li>14.6 Special precautions for user</li> </ul>	Ŵarning: Flammable liquids.		
∘ Danger code (Kemler):	30		
◊ EMŠ Number:	F-E,S-E		
Stowage Category	A		
• 14.7 Transport in bulk according to Annex II of	Marpol and		
the IBC Code	Not applicable.		
<ul> <li>Transport/Additional information:</li> </ul>			
ADR			
<ul> <li>Limited quantities (LQ)</li> </ul>	5L		
Excepted quantities (EQ)	Code: E1		
	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 1000 ml		
◇ Transport category	3		
, , ,	(Contd. on page 7)		

**FREY&LAU** *explore your senses* 

Page 7/8

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

CH

#### Trade name: Terpentinöl rekt. Ph.Eur./ 01-6350 (Contd. of page 6) Tunnel restriction code D/E ◊ IMDG 5L Limited quantities (LQ) 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. (ALPHA-PINENE, BETA-• 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 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 nicht zutreffend. 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: I-.alpha.-Pinene beta-Pinene beta-Caryophyllene Lonaifolene DIPENTENE Myrcene Terpinolene 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H410 Very 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). Do NOT induce vomiting. P331 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 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. Seveso category E1 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t ◇ REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 (Contd. on page 8)

**FREY&LAU** *explore your senses* 

Page 8/8

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2019

Version 142

Revision: 10.09.2019

(Contd. of page 7)

CH

#### Trade name: Terpentinöl rekt. Ph.Eur./ 01-6350

National regulations:

Waterhazard class: Klasse A (Self-assessment)

o 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. 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. 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 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: verv Persistent and verv Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Flam. Sol. 1: Flammable solids – Category 1 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 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.