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ESSENTIAL OILS FRAGRANCES

1. Identification of the substance/mixture and of the company/undertaking
◇ Product identifier
◇ Trade name: Kiefernnadelöl rekt. EuAB/ 01-5370-05
∘ Article number: P0126802 ∘ Registration number - ∘ 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
 ▷ 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 ◦ Emergency telephone number: ++49-40-54.77.99.56 WAKO
2. Hazards identification
 ◇ Classification of the substance or mixture ◇ Classification according to Regulation (EC) No 1272/2008
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
◦ Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful D65.
R65: Harmful: may cause lung damage if swallowed. Xi: Irritant
R38: Irritating to skin.
Xi; Sensitising
R43: May cause sensitisation by skin contact.
N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. ○ Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. ○ Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
 ► Label elements ► Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. ► Hazard pictograms
(1) (2) (2) GHS07 GHS08 GHS09
◇ Signal word Danger
◇ Hazard-determining components of labelling: alpha-Pinene beta-Pinene 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene
DIPENTENE (Contd. on page 2) DE



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♦ Hazard :	statements	
H315 Ca	auses skin irritation.	
H317 Ma	ay cause an allergic skin reaction.	
H304 M	ay be fatal if swallowed and enters airways.	
H411 To	xic to aquatic life with long lasting effects.	
◊ Precauti	onary statements	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P301+P	310 IF SWALLOWED: Immediately call a POISÓN CENTER or doctor/physician.	
P321	Specific treatment (see on this label).	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
○ Other h	azards	
<i>∘ Results</i>	of PBT and vPvB assessment	
◇ PBT: No	t applicable.	
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∘ vPvB: Not applicable.

3 Composition/information on ingredients

	<i>terization: Mixtures</i> re of substances listed below with nonhazardous additions.	
Dangerous compo	onents:	
CAS: 7785-26-4 EINECS: 232-077	alpha-Pinene -3 Xn R65; Xi R38; Xi R43 R10	25-49,99%
CAS: 18172-67-3 EINECS: 242-060	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317 beta-Pinene -2 Xn R65; Xi R38; Xi R43 R10	20-24,99%
CAS: 13466-78-9 EINECS: 236-719	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-19,999
CAS: 138-86-3 EINECS: 205-341	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317 DIPENTENE -0 Xn R65; Xi R38; Xi R43; N R50/53 R10	5-9,99%
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Ser H317	ns. 1B,
CAS: 87-44-5 EINECS: 201-746	beta-Caryophyllene -1 Xn R65	2,5-4,999
CAS: 586-62-9 EINECS: 209-578	Asp. Tox. 1, H304 Terpinolene -0 Xn R65; N R51/53 R10	2,5-4,999
CAS: 79-92-5 EINECS: 201-234	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411 Camphene -8 Xi R36; F R11; N R50/53	1-2,49%
CAS: 99-86-5 EINECS: 202-795	Flam. Sol. 1, H228; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2A, H319 alpha-Terpinene -1 Xn R22-65; N R51/53	<1%
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H302	(Contd. on page 3



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		(Contd. of page 2)
CAS: 99-87-6	p-Cymene	<1%
EINECS: 202-796	-7 Xn R65; N R51/53	
	R10	
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411	
CAS: 475-20-7	Longifolene	<1%
EINECS: 207-491	-2 Xn Ř65; Xi R43; N R50/53	
◊ Additional informa	Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317 tion: For the wording of the listed risk phrases refer to section 16	

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First aid measures

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. Then consult a doctor.
- ◊ After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. Firefighting measures

- Extinguishing media
 A
 Second State
 Se
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- Protective equipment: No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

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.

- 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.
 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.

7. Handling and storage

• Handling:

Precautions for safe handling Prevent formation of aerosols.

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Information about fire - and explosion protection: No special measures required.

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.

• Specific end use(s) No further relevant information available.

8. Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace:

- 138-86-3 DIPENTENE
- MAK vgl.Abschn.IIb
- ◊ Additional information: The lists valid during the making were used as basis.

• 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. Avoid contact with the skin. Avoid contact with the eyes and skin.
- Respiratory protection: Not required.
- 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: Goggles recommended during refilling

9. Physical and chemical properties

Information on basic physical and chemical properties General Information

 Appearance: Form: Colour: Odour: Odour threshold: 	Fluid Colourless to yellow tint Characteristic Not determined.
◦ pH-value:◊ Melting point/Melting range:	Not determined. Undetermined.
◇ Flash point:	65 °C
∘ Flammability (solid, gaseous): ∘ Ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.

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◇ Danger of explosion:	Not determined.	
∘Explosion limits: Lower: Upper:	Not determined. Not determined.	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	0,862 g/cm³ Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.	
 Partition coefficient (n-octanol, Other information 	/water): Not determined. No further relevant information available.	

10. Stability and reactivity

◇ Reactivity

- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

- Information on toxicological effects
- Acute toxicity:
- ◇ Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Corrosive Irritant

In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with high danger of central respiratory arrest.

In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with the danger of central respiratory arrest.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12. Ecological information

• Toxicity

- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

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Aquatic toxicity: No further relevant information available.



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• Ecotoxical effects:

Remark: Toxic for 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. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Results of PBT and vPvB assessment

◦ PBT: Not applicable.

◊ vPvB: Not applicable.

Other adverse effects No further relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Recommendation: Disposal must be made according to official regulations.

14. Transport information ◇ ADR. IMDG. IATA UN3082 • UN proper shipping name UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, ◇ ADR LIQUID, N.O.S. (3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene, DIPENTENE) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ◊ IMDG (3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene, DIPENTENE), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ◇IATA (3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene, DIPENTENE) Transport hazard class(es) *◇ADR* Class 9 (M6) Miscellaneous dangerous substances and articles. ◊ Label 9 ◇IMDG, IATA ○ Class 9 Miscellaneous dangerous substances and articles. ◊ Label 9 • Packing group ◇ADR, IMDG, IATA 111 • Environmental hazards: Product contains environmentally hazardous substances: DIPENTENE Marine pollutant: Yes Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) Special marking (IATA): Symbol (fish and tree) Special precautions for user Warning: Miscellaneous dangerous substances and articles. Danger code (Kemler): 90 • EMS Number: F-A.S-F Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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 ADR Limited quantities (LQ) Transport category Tunnel restriction code UN "Model Regulation": 	5L 3 E UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene, DIPENTENE), 9, III	
15. Regulatory information		
Safety, health and environmental regulations/legislation < Labelling according to Regulation (EC) No 1272/2008 The p < Hazard pictograms	n specific for the substance or mixture roduct is classified and labelled according to the CLP regulation.	
CHS07 GHS08 GHS09		
∘ Signal word Danger		
 Hazard-determining components of labelling: alpha-Pinene beta-Pinene 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene DIPENTENE Hazard statements H315 Causes skin irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H411 Toxic 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. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 		
∧ National regulations:		
○ Classification according to VbF: A II		
 rechnical instructions (air): ○ Class Share in % ○ NK 15,8 		
 Waterhazard class: Water hazard class 2 (Self-assessment) Chemical safety assessment: A Chemical Safety Assessment 	: hazardous for water. nent has not been carried out.	

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.

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	• • •	
		- ,
	400	Causes serious eye irritation. Very toxic to aquatic life.
	400 410	Very toxic to aquatic life with long lasting effects.
	410	Toxic to aquatic life with long lasting effects.
	. •	Flammable.
		Highly flammable.
		Harmful if swallowed.
		Irritating to eyes.
	30 43	Irritating to skin. May cause sensitisation by skin contact.
		Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
		Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	65 65	Harmful: may cause lung damage if swallowed.
	-	ment issuing MSDS: Regulatory Affairs
		c t: Dr. Maja Zippel iations and acronyms:
		glement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of
Da	angerou	us Goods by Rail)
		ternational Civil Aviation Organization cord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by
	or. Acc bad)	und europeen sur le transport des marchandises dangereuses par Route (European Agreement Concerning the international Carnage of Dangerous Goods by
		ternational Maritime Code for Dangerous Goods
		ernational Air Transport Association abally Harmonized System of Classification and Labelling of Chemicals
		Buropean Inventory of Existing Commercial Chemical Substances
		European List of Notified Chemical Substances
		emical Abstracts Service (division of the American Chemical Society) /: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
		ordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
♦ *	Data	compared to the previous version altered.
		DE -



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