

Safety data sheet

gemäß 1907/2006/EG, Artikel 31

Printing date 14.11.2013

Version 33

Revision: 14.11.2013

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

◊ Product identifier

- ◊ Trade name: **Parfümöl Birke / Art-Nr: 1-6915-00**
- ◊ Article number: P0213428
- ◊ 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
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- ◊ Classification according to Directive 67/548/EEC or Directive 1999/45/EC
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



GHS07 GHS09

- ◊ Signal word Warning
- ◊ Hazard-determining components of labelling:
2H-1-Benzopyran-2-one
2,4,6-Trimethyl-3-cyclohexen-1-carboxaldehyde
Pine Oil
3,7-Dimethyloctan-1,7-dial
Isoeugenol
2-(4-tert-Butylbenzyl)propionaldehyde
alpha-hexylcinnamic aldehyde
2-Methyl-3-(4-isopropylphenyl)propanal
Benzyl-2-hydroxybenzoate

- ◊ Hazard statements
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

DE

Safety data sheet

gemäß 1907/2006/EG, Artikel 31

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Revision: 14.11.2013

Trade name: Parfümöl Birke / Art-Nr: 1-6915-00

(Contd. of page 1)

◊ **Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P273 Avoid release to the environment.
 P321 Specific treatment (see on this label).
 P363 Wash contaminated clothing before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

◊ **Other hazards**

- ◊ Results of PBT and vPvB assessment
 ◊ PBT: Not applicable.
 ◊ vPvB: Not applicable.

3. Composition/information on ingredients

◊ **Chemical characterization: Mixtures**

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

◊ **Dangerous components:**

CAS: 2050-08-0	Pentyl-2-hydroxybenzoate	2,5-4,99%
EINECS: 218-080-2	N R50/53	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 60-12-8	2-Phenylethanol	2,5-4,99%
EINECS: 200-456-2	Xi R36	
	Eye Irrit. 2A, H319	
CAS: 140-11-4	Benzyl acetate	1-2,49%
EINECS: 205-399-7	R52/53	
	Aquatic Chronic 3, H412	
CAS: 91-64-5	2H-1-Benzopyran-2-one	1-2,49%
EINECS: 202-086-7	Xn R22-48/22; Xi R43	
	STOT RE 2, H373; Acute Tox. 4, H302; Skin Sens. 1B, H317	
CAS: 111-90-0	2-(2-Ethoxyethoxy)ethanol	1-2,49%
EINECS: 203-919-7	substance with a Community workplace exposure limit	
CAS: 1335-66-6	2,4,6-Trimethyl-3-cyclohexen-1-carboxaldehyde	1-2,49%
EINECS: 215-638-7	Xi R36; Xi R43	
	R52/53	
	Eye Irrit. 2, H319; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 100-06-1	4'-Methoxyacetophenone	1-2,49%
EINECS: 202-815-9	Xn R22	
	Acute Tox. 4, H302	
CAS: 97-54-1	Isoeugenol	<1%
EINECS: 202-590-7	Xn R21/22; Xi R36/38; Xi R43	
	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317	
CAS: 107-75-5	3,7-Dimethyloctan-1,7-dial	<1%
EINECS: 203-518-7	Xi R36; Xi R43	
	Eye Irrit. 2A, H319; Skin Sens. 1B, H317	
CAS: 118-58-1	Benzyl-2-hydroxybenzoate	<1%
EINECS: 204-262-9	Xi R43; N R51/53	
	Aquatic Chronic 2, H411; Skin Sens. 1B, H317	
CAS: 103-95-7	2-Methyl-3-(4-isopropylphenyl)propanal	<1%
EINECS: 203-161-7	Xi R38; Xi R43; N R51/53	
	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	

(Contd. on page 3)

Safety data sheet

gemäß 1907/2006/EG, Artikel 31

Printing date 14.11.2013

Version 33

Revision: 14.11.2013

Trade name: Parfümöl Birke / Art-Nr: 1-6915-00

	(Contd. of page 2)
CAS: 7785-26-4 Pine Oil	<1%
EINECS: 232-077-3 Xn R65; Xi R38; Xi R43 R10	
Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 101-86-0 alpha-hexylcinnamic aldehyde	<1%
EINECS: 202-983-3 Xi R43; N R50/53	
Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	
CAS: 80-54-6 2-(4-tert-Butylbenzyl)propionaldehyde	<1%
EINECS: 201-289-8 Xn R22-62; Xi R38; Xi R43; N R51/53	
Repr. Cat. 2	
Repr. 2, H361; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
◊ Additional information: For the wording of the listed risk phrases refer to section 16.	

4. First aid measures

◊ Description of first aid measures

◊ 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.

◊ 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

◊ 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.

Safety data sheet

gemäß 1907/2006/EG, Artikel 31

Printing date 14.11.2013

Version 33

Revision: 14.11.2013

Trade name: **Parfümöl Birke / Art-Nr: 1-6915-00**

(Contd. of page 3)

7. Handling and storage

- ◊ **Handling:**
- ◊ Precautions for safe handling Prevent formation of aerosols.
- ◊ 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: None.
- ◊ **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:
 - 60-12-8 2-Phenylethanol**
 - MAK vgl. Abschn. IIb
 - 111-90-0 2-(2-Ethoxyethoxy)ethanol**
 - AGW Long-term value: 35 mg/m³, 6 ppm
 - 2(I);AGS, Y
- ◊ 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.
- ◊ Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- ◊ 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 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.
 - The multichemical-resistant glove Barrier 02-100 is recommended.
- ◊ 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 protection: Goggles recommended during refilling

9. Physical and chemical properties

- ◊ **Information on basic physical and chemical properties**
- ◊ General Information
- ◊ Appearance:

Form:	Fluid
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Not determined.
- ◊ pH-value at 20 °C: 6

(Contd. on page 5)

Safety data sheet

gemäß 1907/2006/EG, Artikel 31

Printing date 14.11.2013

Version 33

Revision: 14.11.2013

Trade name: Parfümöl Birke / Art-Nr: 1-6915-00

(Contd. of page 4)

- ◊ **Melting point/Melting range:** Undetermined.
- ◊ **Flash point:** 91 °C
- ◊ **Flammability (solid, gaseous):** Not applicable.
- ◊ **Ignition temperature:**
- Decomposition temperature:** Not determined.
- ◊ **Self-igniting:** Not determined.
- ◊ **Danger of explosion:** Not determined.
- ◊ **Explosion limits:**
- Lower:** Not determined.
- Upper:** Not determined.
- ◊ **Density at 20 °C:** 1,03 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.
- ◊ **Other information:** 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:** No irritant effect.
- ◊ **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.
- Irritant

12. Ecological information

- ◊ **Toxicity**
- ◊ **Aquatic toxicity:** No further relevant information available.
- ◊ **Persistence and degradability:** No further relevant information available.

(Contd. on page 6)

Safety data sheet

gemäß 1907/2006/EG, Artikel 31

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Version 33

Revision: 14.11.2013

Trade name: Parfümöl Birke / Art-Nr: 1-6915-00

(Contd. of page 5)

- ◊ **Behaviour in environmental systems:**
- ◊ **Bioaccumulative potential** No further relevant information available.
- ◊ **Mobility in soil** No further relevant information available.
- ◊ **Ecotoxicological 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.
- ◊ **Uncleaned packaging:**
- ◊ **Recommendation:** Disposal must be made according to official regulations.

14. Transport information

- ◊ **UN-Number**
- ◊ **ADR, IMDG, IATA** UN3082
- ◊ **UN proper shipping name**
- ◊ **ADR** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pentyl-2-hydroxybenzoate, DIPENTENE)
- ◊ **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pentyl-2-hydroxybenzoate, DIPENTENE), MARINE POLLUTANT
- ◊ **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pentyl-2-hydroxybenzoate, 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** III
- ◊ **Environmental hazards:**
- ◊ **Marine pollutant:** Product contains environmentally hazardous substances: Pentyl-2-hydroxybenzoate
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

(Contd. on page 7)

Safety data sheet

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Trade name: Parfümöl Birke / Art-Nr: 1-6915-00

(Contd. of page 6)

◊ **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

◊ **Transport/Additional information:**

◊ ADR

◊ Limited quantities (LQ) 5L

◊ Transport category 3

◊ Tunnel restriction code E

◊ **UN "Model Regulation":** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pentyl-2-hydroxybenzoate, DIPENTENE), 9, III

15. Regulatory information

- ◊ **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- ◊ Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- ◊ Hazard pictograms



GHS07 GHS09

- ◊ Signal word Warning
- ◊ Hazard-determining components of labelling:
 - 2H-1-Benzopyran-2-one
 - 2,4,6-Trimethyl-3-cyclohexen-1-carboxaldehyde
 - Pine Oil
 - 3,7-Dimethyloctan-1,7-dial
 - Isoeugenol
 - 2-(4-tert-Butylbenzyl)propionaldehyde
 - alpha-hexylcinnamic aldehyde
 - 2-Methyl-3-(4-isopropylphenyl)propanal
 - Benzyl-2-hydroxybenzoate
- ◊ Hazard statements
 - H317 May cause an allergic skin reaction.
 - 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.
 - P273 Avoid release to the environment.
 - P321 Specific treatment (see on this label).
 - P363 Wash contaminated clothing before reuse.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- ◊ National regulations:
- ◊ Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- ◊ **Chemical safety assessment:** A Chemical Safety Assessment 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.
 - H302 Harmful if swallowed.
 - H304 May be fatal if swallowed and enters airways.
 - H312 Harmful in contact with skin.
 - H315 Causes skin irritation.

(Contd. on page 8)

Safety data sheet

gemäß 1907/2006/EG, Artikel 31

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Version 33

Revision: 14.11.2013

Trade name: Parfümöl Birke / Art-Nr: 1-6915-00

(Contd. of page 7)

- H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H361 Suspected of damaging fertility or the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 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.
- R10 Flammable.
 R21/22 Harmful in contact with skin and if swallowed.
 R22 Harmful if swallowed.
 R36 Irritating to eyes.
 R36/38 Irritating to eyes and skin.
 R38 Irritating to skin.
 R43 May cause sensitisation by skin contact.
 R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R62 Possible risk of impaired fertility.
 R65 Harmful: may cause lung damage if swallowed.

◇ **Department issuing MSDS:** 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 Organization

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 Harmonized 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)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

◇ *** Data compared to the previous version altered.**