

## Safety data sheet

gemäß 1907/2006/EG, Artikel 31

Printing date 14.11.2013

Version 23

Revision: 14.11.2013

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

#### ♦ Product identifier

- ♦ Trade name: **Parfümöl Agarwood / Art-Nr: 33-6416-00**
- ♦ Article number: P0261408
- ♦ 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 3 H412 Harmful to aquatic life with long lasting effects.

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

- R52/53: Harmful 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 Void
- ♦ Signal word Void
- ♦ Hazard statements  
H412 Harmful to aquatic life with long lasting effects.
- ♦ Precautionary statements  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- ♦ Additional information:  
Contains 2H-1-Benzopyran-2-one, Methylcedrylcetone, Dimethylmyrceton. May produce an allergic reaction.
- ♦ 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: 25265-71-8 Dipropylene glycol  
EINECS: 246-770-3 substance with a Community workplace exposure limit

25-49,99%

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CAS: 54464-57-2	Dimethylmyrceton	<1%
EINECS: 259-174-3	Xi R43; N R51/53	
	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
CAS: 32388-55-9	Methylcedrylacetone	<1%
EINECS: 251-020-3	Xi R43; N R50/53	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	
CAS: 107898-54-4	3,3-Dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol	<1%
ELINCS: 411-580-3	Xi R36/38; N R50/53	
	Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 28219-61-6	2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ole	<1%
EINECS: 248-908-8	Xi R36; N R50/53	
	Aquatic Chronic 1, H410; Eye Irrit. 2A, H319	
CAS: 91-64-5	2H-1-Benzopyran-2-one	<1%
EINECS: 202-086-7	Xn R22-48/22; Xi R43	
	STOT RE 2, H373; Acute Tox. 4, H302; Skin Sens. 1B, H317	
CAS: 105-95-3	Ethylenbrassylate	<1%
EINECS: 203-347-8	N R51/53	
	Aquatic Chronic 2, H411	
CAS: 33704-61-9	6,7-dihydro-1,1,2,3,3-pentamethyl-4(5h)-indanone	<1%
EINECS: 251-649-3	N R51/53	
	STOT RE 2, H373; Aquatic Chronic 2, H411	
CAS: 17283-81-7	4-(2,6,6-trimethyl-1-cyclohexen-1-yl)butan-2-one	<1%
EINECS: 241-318-1	N R51/53	
	Aquatic Chronic 2, H411	

◊ 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; consult doctor in case of complaints.
- ◊ After skin contact: Generally the product does not irritate the skin.
- ◊ 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:  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- ◊ For safety reasons unsuitable extinguishing agents: Water
- ◊ Special hazards arising from the substance or mixture No further relevant information available.
- ◊ 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.

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- Inform respective authorities in case of seepage into water course or sewage system.  
 Dilute with plenty of water.  
 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.
- ◊ **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 Ensure good ventilation/exhaustion at the workplace.  
 ◊ 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:  
**25265-71-8 Dipropylene glycol**  
 AGW Long-term value: 100 E mg/m<sup>3</sup>  
 2(II);H, Y, 11, DFG  
 Mak Long-term value: 67E
- ◊ Additional information: The lists valid during the making were used as basis.
- ◊ **Exposure controls**  
 ◊ Personal protective equipment:  
 ◊ General protective and hygienic measures: 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:  
 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 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: | Light yellow to light brown |

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- ◊ **Odour:** Characteristic
- ◊ **Odour threshold:** Not determined.
- ◊ **pH-value:** Not determined.
- ◊ **Melting point/Melting range:** Undetermined.
- ◊ **Flash point:** > 100 °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:** 1,038 g/cm<sup>3</sup>
- ◊ **Relative density** Not determined.
- ◊ **Vapour density** Not determined.
- ◊ **Evaporation rate** Not determined.
- ◊ **Solubility in / Miscibility with water:** Soluble.
- ◊ **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:** No sensitizing effects known.

### 12. Ecological information

- ◊ **Toxicity**
- ◊ **Aquatic toxicity:** No further relevant information available.
- ◊ **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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- ◊ **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
- ◊ **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.
- ◊ Recommended cleansing agents: Water, if necessary together with cleansing agents.

### 14. Transport information

- |  |                 |
|--|-----------------|
| ◊ <b>UN-Number</b>   |                 |
| ◊ ADR, ADN, IMDG, IATA   | Void            |
| ◊ <b>UN proper shipping name</b>   |                 |
| ◊ ADR, ADN, IMDG, IATA   | Void            |
| ◊ <b>Transport hazard class(es)</b>  |                 |
| ◊ ADR, ADN, IMDG, IATA   |                 |
| ◊ Class  | Void            |
| ◊ <b>Packing group</b>   |                 |
| ◊ ADR, IMDG, IATA  | Void            |
| ◊ <b>Environmental hazards:</b>  |                 |
| ◊ Marine pollutant:  | No              |
| ◊ <b>Special precautions for user</b>  | Not applicable. |
| ◊ <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| ◊ <b>UN "Model Regulation":</b>  | -               |

### 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 Void
- ◊ Signal word Void
- ◊ Hazard statements  
H412 Harmful to aquatic life with long lasting effects.
- ◊ Precautionary statements  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- ◊ National regulations:
- ◊ Technical instructions (air):
- ◊ Class Share in %
- ◊ NK 0,1
- ◊ 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
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - 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.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R36/38 Irritating to eyes and 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.
- ◊ **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
  - ElNECS: 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.