

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

Printing date 23.01.2023

Version 183 (replaces version 182)

Revision: 23.01.2023

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

◊ **1.1 Product identifier**

◊ Trade name: **Bergamotteöl nat.-id,furocumarinfr 01-3655**

◊ Article number: P0123030

◊ Registration number -

◊ **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

Flam. Liq. 3 H226 Flammable liquid and vapour.

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.

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.

◊ **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



GHS02 GHS07 GHS08 GHS09

◊ Signal word Danger

◊ Hazard-determining components of labelling:

3,7-Dimethyl-1,6-octadien-3-yl acetate
dipentene

beta-Pinene

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

Cinnamaldehyde

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

3,7-Dimethyl-2,6-octadien-1-al (cis und trans)

alpha-Pinene

2,6-Octadien-1-ol, 3,7-dimethyl-, acetate, (E)-

beta-Caryophyllene

◊ Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye 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.

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◊ **Precautionary statements**

- P301+P310 **IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**
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].**
P305+P351+P338 **IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**
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.**

◊ **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: 115-95-7	3,7-Dimethyl-1,6-octadien-3-yl acetate	>25-50%
EINECS: 204-116-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 138-86-3	dipentene	>25-50%
EINECS: 205-341-0	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 78-70-6	3,7-Dimethyl-1,6-octadien-3-ol	>10-20%
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 99-85-4	p-Mentha-1,4-diene	>2,5-5%
EINECS: 202-794-6	Flam. Liq. 3, H226; Asp. Tox. 1, H304	
CAS: 18172-67-3	beta-Pinene	>2,5-5%
EINECS: 242-060-2	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 5989-54-8	(S)-p-Mentha-1,8-diene	≥1-<2,5%
EINECS: 227-815-6	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 5392-40-5	3,7-Dimethyl-2,6-octadien-1-al (cis und trans)	≥0,1-<1%
EINECS: 226-394-6	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 80-56-8	alpha-Pinene	≥0,25-<1%
EINECS: 201-291-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317 substance with a Community workplace exposure limit	
CAS: 99-87-6	p-cymene	≥0,25-<1%
EINECS: 202-796-7	Flam. Liq. 3, H226; Acute Tox. 3, H331; Asp. Tox. 1, H304; Aquatic Chronic 2, H411	
CAS: 105-87-3	2,6-Octadien-1-ol, 3,7-dimethyl-, acetate, (E)-	≥0,1-<1%
EINECS: 203-341-5	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 87-44-5	beta-Caryophyllene	≥0,1-<1%
EINECS: 201-746-1	Asp. Tox. 1, H304; Skin Sens. 1B, H317	
CAS: 123-35-3	Myrcene	≥0,25-<1%
EINECS: 204-622-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 99-86-5	alpha-terpinene	≥0,25-<1%
EINECS: 202-795-1	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1B, H317	
	ATE: LD50 oral: 1.680 mg/kg	

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CAS: 106-24-1 3,7-Dimethylocta-2,6-dien-1-ol	≥0,1-<1%
EINECS: 203-377-1 Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 104-55-2 Cinnamaldehyde	≥0,1-<1%
EINECS: 203-213-9 Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317	
CAS: 141-12-8 Neryl acetate	≥0,1-<1%
EINECS: 205-459-2 Skin Sens. 1B, H317	
CAS: 141-16-2 3,7-Dimethyl-6-Octen-1-yl butyrate	≥0,1-<0,25%
EINECS: 205-463-4 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	
CAS: 79-92-5 Camphene	≥0,025-<0,25%
EINECS: 201-234-8 Flam. Sol. 1, H228; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319 substance with a Community workplace exposure limit	
CAS: 106-25-2 Nerol	≥0,1-<1%
EINECS: 203-378-7 Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 586-62-9 Terpinolene	≥0,1-<0,25%
EINECS: 209-578-0 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317	
◊ 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.
- ◊ 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**
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.

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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 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:

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

◊ **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;

79-92-5 Camphene

MAK Short-term value: 224 mg/m³, 40 ppm

Long-term value: 112 mg/m³, 20 ppm

H S;

◊ Additional information: The lists valid during the making were used as basis.

◊ **8.2 Exposure controls**

◊ Appropriate engineering controls No further data; see item 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: Not required.

◊ 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.

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◊ Eye/face protection Tightly sealed goggles

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. SECTION 9: Physical and chemical properties

◊ **9.1 Information on basic physical and chemical properties**

◊ General Information

◊ Physical state

Fluid

◊ Colour:

Colourless to yellow tint

◊ Odour:

Characteristic

◊ Odour threshold:

Not determined.

◊ Melting point/freezing point:

Undetermined.

◊ Flammability

Flammable.

◊ Lower and upper explosion limit

◊ Lower:

Not determined.

◊ Upper:

Not determined.

◊ Flash point:

59 °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:

0,871 g/cm³

◊ Relative density

Not determined.

◊ Vapour density

Not determined.

◊ **9.2 Other information**

◊ Appearance:

◊ Form:

Fluid

◊ Important information on protection of health and environment, and on safety.

◊ Auto-ignition temperature:

Not determined.

◊ Explosive properties:

Not determined.

◊ Solvent separation test:

◊ VOC (EC)

97,48 %

◊ 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

Flammable liquid and vapour.

◊ 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

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. 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)**
 - Inhalative LC50* 600 mg/l
 - ◊ *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* May be fatal if swallowed and enters airways.
- ◊ **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:*
 - 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 3 (German Regulation) (Self-assessment):* extremely hazardous for water
 - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 - Danger to drinking water if even extremely small quantities leak into the ground.
 - Also poisonous for fish and plankton in water bodies.

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Very toxic for aquatic organisms

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. 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 UN1993
- ◊ **14.2 UN proper shipping name**
- ◊ ADR ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (DIPENTEN, beta-Pinen), UMWELTGEFÄHRDEND
- ◊ IMDG FLAMMABLE LIQUID, N.O.S. (DIPENTENE, beta-Pinene), MARINE POLLUTANT
- ◊ IATA FLAMMABLE LIQUID, N.O.S. (containing DIPENTENE, beta-Pinene)
- ◊ **14.3 Transport hazard class(es)**
- ◊ ADR
- ◊ Class 3 (F1) Flammable liquids.
- ◊ Label 3

- ◊ IMDG, IATA
- ◊ Class 3 Flammable liquids.
- ◊ Label 3
- ◊ **14.4 Packing group**
- ◊ ADR, IMDG, IATA III
- ◊ **14.5 Environmental hazards:**
- ◊ Marine pollutant: Product contains environmentally hazardous substances: dipentene
Yes
Symbol (fish and tree)
Symbol (fish and tree)
- ◊ Special marking (ADR): Warning: Flammable liquids.
- ◊ **14.6 Special precautions for user**
- ◊ Hazard identification number (Kemler code): 30
- ◊ EMS Number: F-E,S-E
- ◊ Stowage Category A
- ◊ **14.7 Maritime transport in bulk according to IMO instruments**
- ◊ Not applicable.
- ◊ Transport/Additional information:

- ◊ ADR
- ◊ Limited quantities (LQ) 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
- ◊ Tunnel restriction code D/E

- ◊ IMDG
- ◊ Limited quantities (LQ) 5L
- ◊ Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

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◇ UN "Model Regulation":

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UN 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (DIPENTEN, BETA-PINEN), 3, III, UMWELTGEFÄHRDEND

. 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



◇ Signal word *Danger*

◇ Hazard-determining components of labelling:

3,7-Dimethyl-1,6-octadien-3-yl acetate

dipentene

beta-Pinene

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

Cinnamaldehyde

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

3,7-Dimethyl-2,6-octadien-1-al (cis und trans)

alpha-Pinene

2,6-Octadien-1-ol, 3,7-dimethyl-, acetate, (E)-

beta-Caryophyllene

◇ Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye 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.

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].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

◇ 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.

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- ◊ **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)**
- ◊ **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.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
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: 16.12.2022**
- ◊ **Version number of previous version: 182**
- ◊ **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
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Sol. 1: Flammable solids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

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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.

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