# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 2/16/2018 Revision date: 8/2/2023 Supersedes version of: 3/1/2022 Version: 5.0



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

### 1.1. Product identifier

Product form : Mixture
Trade name : Cinnamon Stick

UFI : W8WC-4369-4005-PRAU

Product code : CC-16292

Type of product : Perfumes, fragrances
Product group : Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use Industrial/Professional use spec : For professional use only

Industrial

Use of the substance/mixture : Perfumes, fragrances Function or use category : Odour agents

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Candle Craft Weiherwiese 10 65510 Idstein - Germany T 49-6126-9363 -0

info@candlecraft.de - www.candlecraft.de

#### 1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China: +400-120-0751; Mexico: +01-800-099-0731;

Brazil: +0-800-591-6042; India: +000-800-100-4086

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

# 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Contains : Linalyl acetate; Cinnamic aldehyde; Cinnamic alcohol; beta-Caryophyllene; Eugenol;

Eucalyptol; Cardamom oil

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Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bis(2-ethylhexyl) adipate substance with national workplace exposure limit(s) (PL)	CAS-No.: 103-23-1 EC-No.: 203-090-1 REACH-no: 01-2119439699-	52.5 – 72.5	Not classified
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802- 33	7.15 – 10.8	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242- 45	2.35 – 4.8	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Eucalyptol	CAS-No.: 470-82-6 EC-No.: 207-431-5 REACH-no: 01-2119967772- 24	1.5 – 3.02	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1, H317
Ethyl maltol	CAS-No.: 4940-11-8 EC-No.: 225-582-5	0.9 – 1.8	Acute Tox. 4 (Oral), H302
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237- 53	0.65 – 1.8	Skin Sens. 1B, H317 Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cardamom oil	CAS-No.: 8000-66-6 EC-No.: 288-922-1	0.825 – 1.65	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371- 33	0.765 – 1.53	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Benzyl alcohol substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH)	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630- 38	0.15 – 0.3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789- 19	0.1 – 0.22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Cinnamic alcohol	CAS-No.: 104-54-1 EC-No.: 203-212-3 REACH-no: 01-2119934496- 29	0.085 – 0.17	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
d-Limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353-	< 0.02	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
.alphaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 80-56-8 EC-No.: 201-291-9	< 0.02	Flam. Liq. 3, H226
.betaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 127-91-3 EC-No.: 204-872-5	< 0.02	Flam. Liq. 3, H226

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

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#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

#### 7.3. Specific end use(s)

No additional information available

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# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

8.1.1 National occupational exposure and biological limit values		
Benzyl alcohol (100-51-6)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	40 mg/m³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	45 mg/m³	
HTP (OEL TWA) [2]	10 ppm	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	22 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Chemical category	Skin notation	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
OEL chemical category	Skin notation	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	240 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	22 mg/m³	
OEL TWA [ppm]	5 ppm	
OEL STEL	44 mg/m³	
OEL STEL [ppm]	10 ppm	
OEL chemical category	Potential for cutaneous absorption	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	22 mg/m³ (aerosol, vapour)	
MAK (OEL TWA) [2]	5 ppm (aerosol, vapour)	
OEL chemical category	Skin notation	
Bis(2-ethylhexyl) adipate (103-23-1)		
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	400 mg/m³	
d-Limonene (5989-27-5)		
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	140 mg/m³	

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d-Limonene (5989-27-5)	
HTP (OEL TWA) [2]	25 ppm
HTP (OEL STEL)	280 mg/m³
HTP (OEL STEL) [ppm]	50 ppm
Germany - Occupational Exposure Limits (TRGS 90	00)
AGW (OEL TWA) [1]	28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA	28 mg/m³
OEL TWA [ppm]	5 ppm
OEL STEL	112 mg/m³
OEL STEL [ppm]	20 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	168 mg/m³
VLA-ED (OEL TWA) [2]	30 ppm
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	140 mg/m³
Grenseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)
OEL chemical category	Allergenic substance
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	40 mg/m³
MAK (OEL TWA) [2]	7 ppm
KZGW (OEL STEL)	80 mg/m³
KZGW (OEL STEL) [ppm]	14 ppm
OEL chemical category	Sensitizer
.alphaPinene (80-56-8)	
Belgium - Occupational Exposure Limits	
OEL TWA [ppm]	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL TWA [ppm]	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)

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.alphaPinene (80-56-8)	
OEL STEL	300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL [ppm]	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	150 mg/m³
IPRV (OEL TWA) [ppm]	25 ppm
TPRV (OEL STEL)	300 mg/m³
TPRV (OEL STEL) [ppm]	50 ppm
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	113 mg/m³
VLA-ED (OEL TWA) [2]	20 ppm
OEL chemical category	Sensitizer
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m³
NGV (OEL TWA) [ppm]	25 ppm
KTV (OEL STEL)	300 mg/m³
KTV (OEL STEL) [ppm]	50 ppm
OEL chemical category	Sensitizer
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	140 mg/m³
Grenseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
.betaPinene (127-91-3)	
Belgium - Occupational Exposure Limits	
OEL TWA [ppm]	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL TWA [ppm]	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)

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.betaPinene (127-91-3)	
OEL STEL	300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL [ppm]	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	150 mg/m³
IPRV (OEL TWA) [ppm]	25 ppm
TPRV (OEL STEL)	300 mg/m³
TPRV (OEL STEL) [ppm]	50 ppm
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	113 mg/m³
VLA-ED (OEL TWA) [2]	20 ppm
OEL chemical category	Sensitizer
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m³
NGV (OEL TWA) [ppm]	25 ppm
KTV (OEL STEL)	300 mg/m³
KTV (OEL STEL) [ppm]	50 ppm
OEL chemical category	Sensitizer
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	140 mg/m³
Grenseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

# 8.1.5. Control banding

No additional information available

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#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

# Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

## 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

### Environmental exposure controls:

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : light yellow. amber.

Odour : characteristic. characteristic.

: Not available Odour threshold : Not applicable Melting point Freezing point : Not available Boiling point Not available : Not applicable Flammability **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : > 93.33 °C (closed cup) ASTM D7094

Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available : Not available Vapour pressure at 50°C : Not available Density : ≈ 0.96 Relative density

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Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg (Source: EPA_HPV)
LD50 dermal rabbit	> 5000 mg/kg (Source: EPA_HPV)
Benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg (Source: NLM_CIP)
LD50 oral	1620 mg/kg bodyweight
LD50 dermal	2500 mg/kg bodyweight
Cinnamic aldehyde (104-55-2)	
LD50 oral rat	2220 mg/kg (Source: NLM_CIP)
LD50 oral	2200 mg/kg bodyweight
LD50 dermal rabbit	1260 mg/kg (Source: EPA_HPV)
LD50 dermal	1100 mg/kg bodyweight

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LDS0 oral rat	Ethyl maltol (4940-11-8)	
LDS0 dermal rabbit	LD50 oral rat	1150 mg/kg (Source: NLM_CIP)
Benzyl benzoate (120-51-4)	LD50 oral	1200 mg/kg bodyweight
LD50 oral rat	LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
LD50 oral	Benzyl benzoate (120-51-4)	
LD50 dermal rabbit	LD50 oral rat	500 mg/kg (Source: NLM_CIP)
Cinnamic alcohol (104-54-1)   LD50 oral   2000 mg/kg bodyweight   2000 mg/kg (Source: ECHA_API)	LD50 oral	1160 mg/kg bodyweight
LD50 oral   Z000 mg/kg bodyweight   LD50 dermal rabbit   > 5000 mg/kg (Source: ECHA_API)	LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	Cinnamic alcohol (104-54-1)	
LD50 oral rat	LD50 oral	2000 mg/kg bodyweight
LD50 oral rat	LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
LD50 oral   Z500 mg/kg bodyweight	Eugenol (97-53-0)	
LD50 oral rat	LD50 oral rat	1930 mg/kg (Source: NZ_CCID)
LD50 oral rat	LD50 oral	2500 mg/kg bodyweight
LD50 oral   2480 mg/kg bodyweight	Eucalyptol (470-82-6)	
Cardamom oil (8000-66-6)  LD50 oral rat	LD50 oral rat	2480 mg/kg (Source: NLM_CIP)
LD50 oral rat    5 g/kg (Source: NLM_CIP)	LD50 oral	2480 mg/kg bodyweight
Bis(2-ethylhexyl) adipate (103-23-1)  LD50 oral rat	Cardamom oil (8000-66-6)	
LD50 oral rat	LD50 oral rat	5 g/kg (Source: NLM_CIP)
LD50 dermal rabbit  LC50 Inhalation - Rat	Bis(2-ethylhexyl) adipate (103-23-1)	
LC50 Inhalation - Rat  d-Limonene (5989-27-5)  LD50 oral rat  LD50 dermal rabbit  > 5 g/kg (Source: CHEMVIEW)  LD50 oral rat  3700 mg/kg (Source: NLM_CIP)  LD50 oral rat  3700 mg/kg (Source: NLM_CIP)  LD50 oral  500 mg/kg bodyweight  LD50 dermal rat  > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat  > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat  > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit  > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation  : Not classified  Serious eye damage/irritation  Germ cell mutagenicity  : Not classified  Carcinogenicity  : Not classified  Eugenol (97-53-0)	LD50 oral rat	5600 mg/kg (Source: NLM_CIP)
d-Limonene (5989-27-5)  LD50 oral rat  LD50 dermal rabbit  > 5 g/kg (Source: CHEMVIEW)  .alphaPinene (80-56-8)  LD50 oral rat  3700 mg/kg (Source: NLM_CIP)  LD50 oral  500 mg/kg bodyweight  LD50 dermal rat  > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat  > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat  > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit  > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation  : Not classified  Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Eugenol (97-53-0)	LD50 dermal rabbit	8410 mg/kg (Source: NLM_CIP)
LD50 oral rat  LD50 dermal rabbit  > 5 g/kg (Source: CHEMVIEW)  .alphaPinene (80-56-8)  LD50 oral rat  3700 mg/kg (Source: NLM_CIP)  LD50 oral  500 mg/kg bodyweight  LD50 dermal rat  > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat  > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat  > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit  > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation  : Not classified  Serious eye damage/irritation  Respiratory or skin sensitisation  Germ cell mutagenicity  : Not classified  Eugenol (97-53-0)	LC50 Inhalation - Rat	> 5.7 mg/l/4h
LD50 dermal rabbit > 5 g/kg (Source: CHEMVIEW)  .alphaPinene (80-56-8)  LD50 oral rat 3700 mg/kg (Source: NLM_CIP)  LD50 oral 500 mg/kg bodyweight  LD50 dermal rat > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Eugenol (97-53-0)	d-Limonene (5989-27-5)	
.alphaPinene (80-56-8)  LD50 oral rat 3700 mg/kg (Source: NLM_CIP)  LD50 oral 500 mg/kg bodyweight  LD50 dermal rat > 5000 mg/kg (Source: CHEMVIEW)  .betaPinene (127-91-3)  LD50 oral rat > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)	LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)
LD50 oral rat  LD50 oral  S00 mg/kg bodyweight  LD50 dermal rat  > 5000 mg/kg (Source: CHEMVIEW)  LD50 oral rat  > 5000 mg/kg (Source: EPA_HPV)  LD50 oral rat  > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit  > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation  Serious eye damage/irritation  Respiratory or skin sensitisation  Germ cell mutagenicity  Carcinogenicity  Eugenol (97-53-0)	LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)
LD50 oral  500 mg/kg bodyweight  > 5000 mg/kg (Source: CHEMVIEW)  LbetaPinene (127-91-3)  LD50 oral rat  > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit  > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation  : Not classified  Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)	.alphaPinene (80-56-8)	
LD50 dermal rat > 5000 mg/kg (Source: CHEMVIEW)  LD50 oral rat > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation : Not classified  Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)	LD50 oral rat	3700 mg/kg (Source: NLM_CIP)
.betaPinene (127-91-3)         LD50 oral rat       > 5000 mg/kg (Source: EPA_HPV)         LD50 dermal rabbit       > 5000 mg/kg (Source: CHEMVIEW)         Skin corrosion/irritation       : Not classified         Serious eye damage/irritation       : Causes serious eye irritation.         Respiratory or skin sensitisation       : May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified         Carcinogenicity       : Not classified         Eugenol (97-53-0)	LD50 oral	500 mg/kg bodyweight
LD50 oral rat  > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit  > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation  : Not classified Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)	LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified Carcinogenicity : Not classified  Eugenol (97-53-0)	.betaPinene (127-91-3)	
Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified Carcinogenicity : Not classified  Eugenol (97-53-0)	LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)
Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)	LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)		
Germ cell mutagenicity : Not classified Carcinogenicity : Not classified  Eugenol (97-53-0)		
Eugenol (97-53-0)		
		Not classified
IARC group 3 - Not classifiable	Eugenol (97-53-0)	
	IARC group	3 - Not classifiable

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Bis(2-ethylhexyl) adipate (103-23-1)	
IARC group	3 - Not classifiable
d-Limonene (5989-27-5)	
IARC group	3 - Not classifiable
Reproductive toxicity :	Not classified
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
Benzyl benzoate (120-51-4)	
Viscosity, kinematic	7.456 mm²/s

## 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

acute

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

(GITOTIIC)	
Linalyl acetate (115-95-7)	
LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)
Benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)
Ethyl maltol (4940-11-8)	
LC50 - Fish [1]	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA)
Benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
NOEC (chronic)	0.168 mg/l
Eugenol (97-53-0)	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
Eucalyptol (470-82-6)	
LC50 - Fish [1]	95.4 (95.4 – 109) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
Bis(2-ethylhexyl) adipate (103-23-1)	
LC50 - Fish [1]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)

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EC50 - Crustacea [1] > 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)  EC50 72h - Algae [1] > 500 mg/l (Species: Desmodesmus subspicatus)  d-Limonene (5989-27-5)  LC50 - Fish [1] 0.619 - 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  LC50 - Fish [2] 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  .alphaPinene (80-56-8)  LC50 - Fish [1] 0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	Bis(2-ethylhexyl) adipate (103-23-1)	
d-Limonene (5989-27-5)  LC50 - Fish [1]  0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  LC50 - Fish [2]  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  .alphaPinene (80-56-8)  LC50 - Fish [1]  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	EC50 - Crustacea [1]	> 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [1]  0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  LC50 - Fish [2]  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  .alphaPinene (80-56-8)  LC50 - Fish [1]  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
Source: EPA)  LC50 - Fish [2]  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  .alphaPinene (80-56-8)  LC50 - Fish [1]  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	d-Limonene (5989-27-5)	
.alphaPinene (80-56-8)         LC50 - Fish [1]         0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	LC50 - Fish [1]	
LC50 - Fish [1]  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
	.alphaPinene (80-56-8)	
	LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1] 41 mg/l (Exposure time: 48 h - Species: Daphnia magna)	EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)

# 12.2. Persistence and degradability

Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

# 12.3. Bioaccumulative potential

11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
Linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)
Benzyl alcohol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1.05
Cinnamic aldehyde (104-55-2)	
Partition coefficient n-octanol/water (Log Pow)	2.1065 (at 25 °C)
Ethyl maltol (4940-11-8)	
Partition coefficient n-octanol/water (Log Pow)	2.9 (at 25 °C)
Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
Bioaccumulative potential	Not established.
Cinnamic alcohol (104-54-1)	
Partition coefficient n-octanol/water (Log Pow)	1.636 (at 27 °C (at pH 3.52)
beta-Caryophyllene (87-44-5)	
Partition coefficient n-octanol/water (Log Pow)	6.23 (at 25 °C (at pH 7)
Eugenol (97-53-0)	
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)
Eucalyptol (470-82-6)	
Partition coefficient n-octanol/water (Log Pow)	3.4
Bis(2-ethylhexyl) adipate (103-23-1)	
BCF - Fish [1]	(27 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	8.94 (at 25 °C)

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d-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °C (at pH 7.2)	
.alphaPinene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow) 4.1	

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : HP3 "Flammable:"
- flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
- flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
- flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
- flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
- water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
- other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
- HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
- HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

## 14.6. Special precautions for user

#### **Overland transport**

Not applicable

## Transport by sea

Not applicable

#### Air transport

Not applicable

## Inland waterway transport

Not applicable

#### Rail transport

Not applicable

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.1.1. EU-Regulations

## **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Eucalyptol ; Cardamom oil	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Cinnamon Stick CC- 16292; Linalyl acetate; Cinnamicaldehyde; Benzyl benzoate; Eucalyptol; Cardamom oil; Eugenol; beta- Caryophyllene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Cinnamon Stick CC- 16292 ;Cinnamic aldehyde ; Benzyl benzoate ; Cardamom oil ; beta- Caryophyllene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
40.	Eucalyptol ; Cardamom oil	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### **Germany**

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
List of sensitizing substances (TRGS 907)	: Contains sensitizing substances according TRGS 907.
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	

#### Netherlands

ABM category	: A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	: None of the components are listed : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed : None of the components are listed

: None of the components are listed

#### **Denmark**

Classification remarks :	Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations :	Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with
	the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SZW-lijst van reprotoxische stoffen – Ontwikkeling

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# **SECTION 16: Other information**

Abbreviations and acr	onyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH	I-statements:
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4

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Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
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.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.