# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878



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

#### 1.1. Product identifier

Product form : Mixture

Product name : CASHMERE KUSH CC-16389 25% in DPG

Product code : CC-16389\_25%
Type of product : Perfumes, fragrances

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only
: Perfumes, fragrances
: Odour agents

#### 1.2.2. Uses advised against

Use of the substance/mixture

Function or use category

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

No additional information available

## **SECTION 2: Hazards identification**

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

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

Skin sensitisation, Category 1 H317 Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

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

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

No additional information available

# 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Contains : Linalool; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; Hexyl

cinnamic aldehyde; Benzyl salicylate; Linalyl acetate; (R)-p-mentha-1,8-diene; d-limonene;

Helional; Geraniol; Vertenex; Hydroxy; Geranyl acetate

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

H412 - Harmful to aquatic life with long lasting effects.

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

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

P273 - Avoid release to the environment.

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 ${\tt P280-Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection/hearing}$ 

protection.

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

P321 - Specific treatment (see supplemental first aid instruction on this label).

: For professional users only.

## 2.3. Other hazards

Extra phrases

Contains no PBT and/or 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 substance(s) are 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- 19	8.2675 – 16.535	Not classified
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-	0.508367537 5 – 1.016735075	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	CAS-No.: 54464-57-2 EC-No.: 259-174-3 REACH-no: 01-2119489989- 04	0.41875 – 0.8375	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB)	CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227- 29	0.3725 – 0.745	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092- 50	0.325 – 0.65	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789- 19	0.22884145 – 0.4576829	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442- 31	0.21875 – 0.4375	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353- 35	0.12866225 – 0.2573245	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Helional	CAS-No.: 1205-17-0 EC-No.: 214-881-6 REACH-no: 01-2120740119- 58	0.08125 – 0.1625	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 2, H411
Geraniol	CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-	0.075 – 0.15	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286- 24	0.05625 – 0.1125	Skin Sens. 1B, H317
Hydroxy	CAS-No.: 107-75-5 EC-No.: 203-518-7 REACH-no: 01-2119973482- 31	0.05 – 0.1	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Geranyl acetate	CAS-No.: 105-87-3 EC-No.: 203-341-5 REACH-no: 01-2119973480- 35	0.05 – 0.1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
.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	0.003347312 5 - 0.006694625	Flam. Liq. 3, H226
Toluene substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit  Full text of H- and EUH-statements: see section 16	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	0.00000035 – 0.0000007	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Methods for cleaning up

Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour.

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

: Keep only in the original container in a cool, well ventilated place away from : Keep Storage conditions

container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Germany

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids

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Joint storage table LGK 2A LGK 2B LGK 3 LGK 4.1A LGK 1 LGK 4.1B LGK 4.2 LGK 4.3 LGK 5.1A LGK 5.1B LGK 6.1A LGK 6.1B LGK 5.1C LGK 5.2 LGK 6.1C LGK 6.1D LGK 6.2 LGK 7 LGK 8A LGK 8B LGK 11 LGK 12 LGK 10 **LGK 13** LGK 10-13

Joint storage not permitted for : LGK 1, LGK 6.2, LGK 7
Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.3, LGK 5.1C

Joint storage permitted for : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A,

LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK

10-13

Switzerland

Storage class (LK) : LK 10/12 - Liquids

## 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Ris(2-ethylheyyl) adinate (103-23-1)

# 8.1.1 National occupational exposure and biological limit values

Poland - Occupational Exposure Limits		
NDS (OEL TWA)	400 mg/m³	
(R)-p-mentha-1,8-diene; d-limonene (5989-27	-5)	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	140 mg/m³	
	25 ppm	
HTP (OEL STEL)	280 mg/m³	
	50 ppm	
Germany - Occupational Exposure Limits (TRGS 9	000)	
AGW (OEL TWA)	28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
	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	
	5 ppm	
OEL STEL	112 mg/m³	
	20 ppm	
OEL chemical category	Potential for cutaneous absorption	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	168 mg/m³	
	30 ppm	

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)			
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption		
Norway - Occupational Exposure Limits			
Grenseverdi (OEL TWA)	140 mg/m³		
	25 ppm		
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)		
	37.5 ppm (value calculated)		
OEL chemical category	Allergenic substance		
Switzerland - Occupational Exposure Limits			
MAK (OEL TWA)	40 mg/m³		
	7 ppm		
KZGW (OEL STEL)	80 mg/m³		
	14 ppm		
OEL chemical category	Sensitizer		
Toluene (108-88-3)			
EU - Indicative Occupational Exposure Limit (IOE	L)		
IOEL TWA	192 mg/m³		
	50 ppm		
IOEL STEL	384 mg/m³		
	100 ppm		
Remark	Possibility of significant uptake through the skin		
Austria - Occupational Exposure Limits			
MAK (OEL TWA)	190 mg/m³		
	50 ppm		
MAK (OEL STEL)	380 mg/m³		
	100 ppm		
OEL chemical category	Skin notation		
Belgium - Occupational Exposure Limits	•		
OEL TWA	77 mg/m³		
	20 ppm		
OEL STEL	384 mg/m³		
	100 ppm		
OEL chemical category	Skin, Skin notation		
Bulgaria - Occupational Exposure Limits			
OEL TWA	192 mg/m³		
	50 ppm		
OEL STEL	384 mg/m³		
	100 ppm		

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Toluene (108-88-3)	
Bulgaria - Biological limit values	
BLV	1.6 mmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of exposure or end of work shift
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	192 mg/m³
	50 ppm
KGVI (OEL STEL)	384 mg/m³
	100 ppm
OEL chemical category	Skin notation
Croatia - Biological limit values	
BLV	1 mg/l Parameter: Toluene - Medium: blood - Sampling time: at the end of the work shift 20 ppm Parameter: Toluene - Medium: final exhaled air - Sampling time: during exposure 2.5 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) 1 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
Cyprus - Occupational Exposure Limits	
OEL TWA	192 mg/m³
	50 ppm
OEL STEL	384 mg/m³
	100 ppm
OEL chemical category	Skin-potential for cutaneous absorption
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	200 mg/m³
OEL chemical category	Potential for cutaneous absorption
Czech Republic - Biological limit values	
BLV	1.6 µmol/mmol Creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis)  1000 µmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.)  1.5 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis)  1600 mg/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.)
Denmark - Occupational Exposure Limits	
OEL TWA	94 mg/m³
	25 ppm
OEL STEL	384 mg/m³
	100 ppm
OEL chemical category	Potential for cutaneous absorption

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Toluene (108-88-3)		
Estonia - Occupational Exposure Limits		
OEL TWA	192 mg/m³	
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	Skin notation	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	81 mg/m³	
	25 ppm	
HTP (OEL STEL)	380 mg/m³	
	100 ppm	
OEL chemical category	Potential for cutaneous absorption	
Finland - Biological limit values		
BLV	500 nmol/L Parameter: Toluene - Medium: blood - Sampling time: in the morning after a working day	
France - Occupational Exposure Limits		
VME (OEL TWA)	76.8 mg/m³ (restrictive limit)	
	20 ppm (restrictive limit)	
VLE (OEL C/STEL)	384 mg/m³ (restrictive limit)	
	100 ppm (restrictive limit)	
OEL chemical category	Reproductive Toxin category 2, Risk of cutaneous absorption	
France - Biological limit values		
BLV	20 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of workweek (Semi-quantitative (ambiguous interpretation))  Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA)	190 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
	50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Chemical category	Skin notation	
Germany - Biological limit values (TRGS 903)		
Biological limit value	600 μg/l Parameter: Toluene - Medium: whole blood - Sampling time: immediately after exposure 75 μg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: end of shift	
Gibraltar - Occupational Exposure Limits		
OEL TWA	192 mg/m³	

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Toluene (108-88-3)		
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	Skin notation	
Greece - Occupational Exposure Limits	'	
OEL TWA	192 mg/m³	
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	skin - potential for cutaneous absorption	
Hungary - Occupational Exposure Limits	'	
AK (OEL TWA)	190 mg/m³	
CK (OEL STEL)	384 mg/m³	
OEL chemical category	Potential for cutaneous absorption	
Ireland - Occupational Exposure Limits	'	
OEL TWA	192 mg/m³	
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	Potential for cutaneous absorption	
Italy - Occupational Exposure Limits		
OEL TWA	192 mg/m³	
	50 ppm	
OEL chemical category	skin - potential for cutaneous absorption	
Latvia - Occupational Exposure Limits	<u>'</u>	
OEL TWA	50 mg/m³	
	14 ppm	
OEL chemical category	skin - potential for cutaneous exposure	
Latvia - Biological Exposure Indices	<u>'</u>	
BEI	1.6 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: end of shift	
Lithuania - Occupational Exposure Limits	'	
IPRV (OEL TWA)	192 mg/m³	
	50 ppm	
TPRV (OEL STEL)	384 mg/m³	
	100 ppm	
OEL chemical category	Reproductive toxin, Skin notation	
Luxembourg - Occupational Exposure Limits	•	
OEL TWA	192 mg/m³	

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Toluene (108-88-3)		
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	Possibility of significant uptake through the skin	
Malta - Occupational Exposure Limits		
OEL TWA	192 mg/m³	
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	Possibility of significant uptake through the skin	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	150 mg/m³	
	39 ppm	
TGG-15min (OEL STEL)	384 mg/m³	
	100 ppm	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	100 mg/m³	
NDSCh (OEL STEL)	200 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	192 mg/m³ (indicative limit value)	
	50 ppm (indicative limit value)	
OEL STEL	384 mg/m³ (indicative limit value)	
	100 ppm (indicative limit value)	
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value	
Romania - Occupational Exposure Limits		
OEL TWA	192 mg/m³	
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	Skin notation	
Romania - Biological limit values		
BLV	2 g/l Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 3 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift	
Slovakia - Occupational Exposure Limits	•	
NPHV (OEL TWA)	192 mg/m³	
	50 ppm	
NPHV (OEL C)	384 mg/m³	
OEL chemical category	Potential for cutaneous absorption	

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Toluene (108-88-3)		
Slovakia - Biological limit values		
BLV	600 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of exposure or work shift 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: after all work shifts (for long-term exposure) 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of exposure or work shift 1600 mg/g creatinine Parameter: Hippuric acid - Sampling time: end of exposure or work shift	
Slovenia - Occupational Exposure Limits		
OEL TWA	192 mg/m³	
	50 ppm	
OEL STEL	384 mg/m³	
	100 ppm	
OEL chemical category	Category 2, Potential for cutaneous absorption	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	192 mg/m³ (indicative limit value)	
	50 ppm (indicative limit value)	
VLA-EC (OEL STEL)	384 mg/m³	
	100 ppm	
OEL chemical category	skin - potential for cutaneous absorption	
Spain - Biological limit values		
BLV	0.6 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: start of last shift of workweek 0.08 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	192 mg/m³	
	50 ppm	
KGV (OEL STEL)	384 mg/m³	
	100 ppm	
OEL chemical category	Skin notation	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	191 mg/m³	
	50 ppm	
WEL STEL (OEL STEL)	384 mg/m³	
	100 ppm	
WEL chemical category	Potential for cutaneous absorption	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	94 mg/m³	
	25 ppm	
Korttidsverdi (OEL STEL)	141 mg/m³ (value calculated)	

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Toluene (108-88-3)	
	37.5 ppm (value calculated)
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	190 mg/m³
	50 ppm
KZGW (OEL STEL)	760 mg/m³
	200 ppm
OEL chemical category	Skin notation, Category 2 reproductive toxin
Switzerland - BAT	
ВАТ	600 μg/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 6.48 μmol/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 2 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 0.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 4.62 μmol/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 75 μg/l Parameter: Toluol - Medium: urine - Sampling time: end of shift
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	20 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - ACGIH - Biological Exposure Indices	
BEI	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g creatinine Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
.betaPinene (127-91-3)	
Belgium - Occupational Exposure Limits	
OEL TWA	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)
	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)
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)
	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
	25 ppm
TPRV (OEL STEL)	300 mg/m³

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.betaPinene (127-91-3)		
	50 ppm	
Portugal - Occupational Exposure Limits		
OEL TWA	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)	113 mg/m³	
	20 ppm	
OEL chemical category	Sensitizer	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	150 mg/m³	
	25 ppm	
KGV (OEL STEL)	300 mg/m³	
	50 ppm	
OEL chemical category	Sensitizer	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	140 mg/m³	
	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
	37.5 ppm (value calculated)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	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

## 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

## 8.2.2. Personal protection equipment

## Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



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#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

#### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use.

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

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Standard. Odour characteristic. Odour threshold Not available Melting point Not available Freezing point Not available Boiling point : Not available Flammability : Non flammable. Lower explosion limit : Not available Upper explosion limit : Not available : > 93 °C Flash point : Not available Auto-ignition temperature Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available 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

No additional information available

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# 10.2. Chemical stability

Not established.

## 10.3. Possibility of hazardous reactions

Not established.

# 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases.

LC50 Inhalation - Rat

# 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

# **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

Acute toxicity (inhalation) :	Not classified	
Bis(2-ethylhexyl) adipate (103-23-1)		
LD50 oral rat	5600 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	8410 mg/kg (Source: NLM_CIP)	
LC50 Inhalation - Rat	> 5.7 mg/l/4h	
Linalool (78-70-6)		
LD50 oral	2790 mg/kg bodyweight	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylir	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)	
LD50 oral rat	> 3250 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 3250 mg/kg (Source: CHEMVIEW)	
LC50 Inhalation - Rat	> 5.04 mg/l/4h	
Hexyl cinnamic aldehyde (101-86-0)		
LD50 oral rat	3100 mg/kg (Source: NLM_CIP)	
LD50 oral	3100 mg/kg bodyweight	
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPV)	
LC50 Inhalation - Rat	> 5 mg/l/4h	
Benzyl salicylate (118-58-1)		
LD50 oral rat	2227 mg/kg (Source: NLM_CIP)	
LD50 oral	2200 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
Linalyl acetate (115-95-7)		
LD50 oral rat	14550 mg/kg (Source: EPA_HPV)	
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)	

> 18.94 mg/l (Exposure time: 8 h Source: ECHA)

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Additional information : Based on available data, the classification criteria are not met Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitisation : May cause an allergic skin reaction. Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group	(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Helional (1205-17-0)  D50 demal rabbit > 2000 mg/kg (Source: ECHA, API)  Geraniol (106-24-1)  L550 demal rabbit   3600 mg/kg (Source: NLM_CIP)  D50 demal rabbit   5 g/kg (Source: NLM_CIP)  Vertenex (32210-23-4)  L550 demal rabbit   5 g/kg (Source: NLM_CIP)  Vertenex (32210-23-4)  L550 demal rabbit   5 g/kg (Source: NLM_CIP)  Geranyl acetate (105-87-3)  L550 demal rabbit   5 g/kg (Source: NLM_CIP)  Toluene (108-88-3)  L550 demal rabbit   2000 mg/kg (Source: JAPAN_GIS)  L550 demal rabbit   12000 mg/kg	LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)	
Description   Communication	LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)	
Common	Helional (1205-17-0)		
D50 oral rat   3600 mg/kg (Source: NLM_CIP)	LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
DSS oral   SSOO mg/kg bodyweight	Geraniol (106-24-1)		
Vertenex (32210-23-4)   Vertenex (32210-23-4)   LD50 oral rat   5 g/kg (Source: NLM_CIP)     LD50 oral rat   3370 mg/kg bodyweight     LD50 dermal rabbit   > 5000 mg/kg (Source: CHEMVIEW)     Hydroxy (107-75-5)     LD50 dermal rabbit   > 5 g/kg (Source: NLM_CIP)     LD50 dermal rabbit   > 5 g/kg (Source: ECHA_API)     Ceranyl acetate (105-87-3)     LD50 dermal rabbit   2600 mg/kg (Source: ECHA_API)     Ceranyl acetate (105-88-3)     LD50 oral rat   2600 mg/kg (Source: NLM_CIP)     Toluene (108-88-3)     LD50 dermal rabbit   12000 mg/kg (Source: JAPAN_GHS)     LD50 dermal rabbit   12000 mg/kg (Source: JAPAN_GHS)     LD50 dermal rabbit   12000 mg/kg (Source: JAPAN_GHS)     LD50 dermal rabbit   12000 mg/kg (Source: EPA_HPV)     LD50 dermal rabbit   > 5000 mg/kg (Source: EPA_HPV)     LD50 dermal rabbit   > 5000 mg/kg (Source: CHEMVIEW)     Skin corrosion/irritation   Not classified   Additional information   Seaded on available data, the classification criteria are not met     Serious eye damage/irritation   Seaded on available data, the classification criteria are not met     Serious eye damage/irritation   Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met     Seaded on available data, the classification criteria are not met	LD50 oral rat	3600 mg/kg (Source: NLM_CIP)	
Vertenex (32210-23-4)           LD50 oral rat         5 g/kg (Source: NLM_CIP)           LD50 oral         3370 mg/kg bodyweight           LD50 dermal rabbit         > 5000 mg/kg (Source: CHEM/IEW)           Hydroxy (107-75-5)           LD50 oral rat         > 5 g/kg (Source: NLM_CIP)           LD50 oral rat bother (105-87-3)         > 2000 mg/kg (Source: NLM_CIP)           Toluene (108-88-3)           LD50 oral rat         2800 mg/kg (Source: JAPAN_GHS)           LD50 dermal rabbit         12000 mg/kg (Source: JAPAN_GHS)           LC50 Inhalation - Rat         12,5 mg/l/4h           Jame (127-91-3)           LD50 oral rat         > 5000 mg/kg (Source: EPA_HPV)           LD50 oral rat         > 5000 mg/kg (Source: CHEM/IEW)           Skin corresion/irritation         : Not classified           Additional information         : Not classified           Additional information         : Based on available data, the classification criteria are not met           Respiratory or skin sensitisation         : May cause an allergic skin reaction.           Additional information         : Based on available data, the classification criteria are not met           Germ cell mutagenicity         : Not classified           Additional information         : Based on available data, the classificat	LD50 oral	3600 mg/kg bodyweight	
D50 oral rat   S g/kg (Source: NLM_CIP)	LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)	
LD50 oral   3370 mg/kg bodyweight	Vertenex (32210-23-4)		
Hydroxy (107-75-5)     LD50 oral rat   > 5 g/kg (Source: NLM_CIP)     LD50 dermal rabbit   > 2000 mg/kg (Source: ECHA_API)     Common oral rat   6330 mg/kg (Source: NLM_CIP)     Common oral rat   2600 mg/kg (Source: JAPAN_CIP)     LD50 oral rat   2600 mg/kg (Source: JAPAN_GIPS)     LD50 dermal rabbit   12000 mg/kg (Source: JAPAN_GIPS)     LD50 dermal rabbit   12000 mg/kg (Source: JAPAN_GIPS)     LD50 oral rat   2.5 mg/l/4h     LD50 oral rat   > 5000 mg/kg (Source: EPA_HPV)     LD50 dermal rabbit   > 5000 mg/kg (Source: EPA_HPV)     LD50 dermal rabbit   > 5000 mg/kg (Source: CHEMVIEW)     Skin corrosion/irritation   : Not classified     Additional information   : Based on available data, the classification criteria are not met     Respiratory or skin sensitisation   : May cause an allergic skin reaction.     Additional information   : Based on available data, the classification criteria are not met     Germ cell mutagenicity   : Not classified     Additional information   : Based on available data, the classification criteria are not met     Germ cell mutagenicity   : Not classified     Additional information   : Based on available data, the classification criteria are not met     Germ cell mutagenicity   : Not classified     Additional information   : Based on available data, the classification criteria are not met     Germ cell mutagenicity   : Not classified     Additional information   : Based on available data, the classification criteria are not met     Germ cell mutagenicity   : Not classified     Additional information   : Based on available data, the classification criteria are not met     Germ cell mutagenicity   : Not classified     Additional information   : Based on available data, the classification criteria are not met     Germ cell mutagenicity   : Not classified     Additional information   : Based on available data, the classification criteri	LD50 oral rat	5 g/kg (Source: NLM_CIP)	
Hydroxy (107-75-5)     LD50 oral rat	LD50 oral	3370 mg/kg bodyweight	
LD50 oral rat	LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit > 2000 mg/kg (Source: ECHA_API)  Geranyl acetate (105-87-3)  LD50 oral rat 6330 mg/kg (Source: NLM_CIP)  Toluene (108-88-3)  LD50 oral rat 2600 mg/kg (Source: JAPAN_GHS)  LD50 dermal rabbit 12000 mg/kg (Source: JAPAN_GHS)  LC50 Inhalation - Rat 12000 mg/kg (Source: JAPAN_GHS)  LC50 Inhalation - Rat 12.5 mg/l/4h  LbetaPinene (127-91-3)  LD50 oral rat > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation   8 ased on available data, the classification criteria are not met Respiratory or skin sensitisation   8 ased on available data, the classification criteria are not met Respiratory or skin sensitisation   8 ased on available data, the classification criteria are not met Germ cell mutagenicity   Not classified Additional information   8 ased on available data, the classification criteria are not met Germ cell mutagenicity   Not classified Additional information   8 ased on available data, the classification criteria are not met Carcinogenicity   Not classified Additional information   8 ased on available data, the classification criteria are not met Bisi(2-ethylhexyl) adipate (103-23-1)  IARC group   3 - Not classifiable  Toluene (108-88-3)  IARC group   3 - Not classifiable  Toluene (108-88-3)	Hydroxy (107-75-5)		
LD50 oral rat 6330 mg/kg (Source: NLM_CIP)  Toluene (108-88-3)  LD50 oral rat 2600 mg/kg (Source: JAPAN_GHS)  LD50 dermal rabbit 12000 mg/kg (Source: JAPAN_GHS)  LC50 Inhalation - Rat 12.5 mg/l/4h  LbetaPinene (127-91-3)  LD50 oral rat > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation   Not classified Additional information   Based on available data, the classification criteria are not met Respiratory or skin sensitisation   May cause an allergic skin reaction. Additional information   Based on available data, the classification criteria are not met Respiratory or skin sensitisation   May cause an allergic skin reaction. Additional information   Based on available data, the classification criteria are not met Carcinogenicity   Not classified Additional information   Based on available data, the classification criteria are not met Carcinogenicity   Not classified Additional information   Based on available data, the classification criteria are not met Bis(2-ethylhexyl) adipate (103-23-1)  LARC group   3 - Not classifiable    Toluene (108-88-3)  LARC group   3 - Not classifiable	LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
Toluene (108-88-3)  LD50 oral rat 2600 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit 12000 mg/kg (Source: JAPAN_GHS)  LC50 Inhalation - Rat 12.5 mg/l/4h  LbetaPinene (127-91-3)  LD50 dermal rabbit > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit   5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation   Not classified   Seased on available data, the classification criteria are not met   Serious eye damage/irritation   May cause an allergic skin reaction. Additional information   Based on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the classification criteria are not met   Seased on available data, the	LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
Toluene (108-88-3)  LD50 oral rat 2600 mg/kg (Source: JAPAN_GHS)  LD50 dermal rabbit 12.5 mg/l/4h  LbetaPinene (127-91-3)  LD50 oral rat > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation	Geranyl acetate (105-87-3)		
LD50 oral rat  LD50 dermal rabbit  LC50 Inhalation - Rat  LD50 dermal rabbit  LC50 Inhalation - Rat  LD50 oral rabbit  Skin corrosion/irritation  Skin corrosion/irritation  Skin corrosion/irritation  Serious eye damage/irritation  Additional information  Serious eye damage/irritation  Additional information  Serious eye stin sensitisation  Additional information  Serious eye damage/irritation  Additional information  Serious eye damage/irritation	LD50 oral rat	6330 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit  LC50 Inhalation - Rat  12.5 mg/l/4h  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 Additional information : Based on available data, the classification criteria are not met  Serious eye damage/irritation  Additional information : Based on available data, the classification criteria are not met  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Additional information : Based on available data, the classification criteria are not met  Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group  3 - Not classifiable  Toluene (108-88-3)  IARC group  3 - Not classifiable	Toluene (108-88-3)		
LC50 Inhalation - Rat    DetaPinene (127-91-3)	LD50 oral rat	2600 mg/kg (Source: JAPAN_GHS)	
LD50 oral rat > 5000 mg/kg (Source: EPA_HPV)  LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitisation : May cause an allergic skin reaction. Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable	LD50 dermal rabbit	12000 mg/kg (Source: JAPAN_GHS)	
LD50 oral rat  LD50 dermal rabbit  > 5000 mg/kg (Source: EPA_HPV)  > 5000 mg/kg (Source: CHEMVIEW)  Skin corrosion/irritation  Skin corrosion/irritation  Additional information  Serious eye damage/irritation  Serious eye damage/irritation  Additional information  Serious eye damage/irritation  May cause an allergic skin reaction.  Additional information  Seased on available data, the classification criteria are not met  Carcinogenicity  Additional information  Seased on available data, the classification criteria are not met  Carcinogenicity  Additional information  Seased on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group  3 - Not classifiable  Toluene (108-88-3)  IARC group  3 - Not classifiable	LC50 Inhalation - Rat	12.5 mg/l/4h	
D50 dermal rabbit   > 5000 mg/kg (Source: CHEMVIEW)	.betaPinene (127-91-3)		
Skin corrosion/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitisation : May cause an allergic skin reaction. Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group	LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)	
Additional information : Based on available data, the classification criteria are not met Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitisation : May cause an allergic skin reaction. Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group	LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
Serious eye damage/irritation : Not classified Additional information : Based on available data, the classification criteria are not met Respiratory or skin sensitisation : May cause an allergic skin reaction. Additional information : Based on available data, the classification criteria are not met Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group : 3 - Not classifiable  Toluene (108-88-3)  IARC group : 3 - Not classifiable  Toluene (108-88-3)  IARC group : 3 - Not classifiable			
Respiratory or skin sensitisation Additional information Based on available data, the classification criteria are not met Germ cell mutagenicity Additional information Based on available data, the classification criteria are not met Carcinogenicity Based on available data, the classification criteria are not met Carcinogenicity Based on available data, the classification criteria are not met Bis(2-ethylhexyl) adipate (103-23-1)  IARC group  3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group  3 - Not classifiable  Toluene (108-88-3)  IARC group  3 - Not classifiable			
Additional information : Based on available data, the classification criteria are not met  Germ cell mutagenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable			
Germ cell mutagenicity Additional information Based on available data, the classification criteria are not met Carcinogenicity Additional information Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Additional information : Based on available data, the classification criteria are not met  Carcinogenicity : Not classified  Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable			
Additional information : Based on available data, the classification criteria are not met  Bis(2-ethylhexyl) adipate (103-23-1)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable		Based on available data, the classification criteria are not met	
Bis(2-ethylhexyl) adipate (103-23-1)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable	Carcinogenicity :		
IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable		Based on available data, the classification criteria are not met	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable		3 - Not classifiable	
IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable			
Toluene (108-88-3) IARC group 3 - Not classifiable			
IARC group 3 - Not classifiable		5 Tot Sassinasio	
	·	2. Not classifiable	
	- '	3 - Not classified	

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Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Toluene (108-88-3)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Toluene (108-88-3)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

#### 11.2. Information on other hazards

## 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and

: Based on available data, the classification criteria are not met

symptoms

# **SECTION 12: Ecological information**

## 12.1. Toxicity

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)

(om omo)		
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)	
EC50 - Crustacea [1]	> 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)	
Linalool (78-70-6)		
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)		
LC50 - Fish [1]	0.452 mg/l Wolf, 1996d-27682	
LC50 - Other aquatic organisms [1]	> 0.14 mg/l REACH DOSSIER Pimephales promelas	
EC50 - Crustacea [2]	260 μg/l REACH Dossier	
EC50 - Other aquatic organisms [1]	0.131 mg/l REACH Dossier	
Benzyl salicylate (118-58-1)		
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
Linalyl acetate (115-95-7)		
LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)	

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LC50 - Fish [1]

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)

2000 1.1011[1]	Source: EPA)
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
Geraniol (106-24-1)	
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)
Vertenex (32210-23-4)	
LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)
Toluene (108-88-3)	
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)
12.2. Persistence and degradability	
CASHMERE KUSH CC-16389 25% in DPG	
Persistence and degradability	Not established.
Bis(2-ethylhexyl) adipate (103-23-1)	
Persistence and degradability	Rapidly degradable
Linalool (78-70-6)	
Persistence and degradability	Rapidly degradable
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethy	yl-2-naphthalenyl)ethanone (54464-57-2)
Persistence and degradability	Rapidly degradable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylii	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)
Persistence and degradability	Rapidly degradable
Hexyl cinnamic aldehyde (101-86-0)	
Persistence and degradability	Rapidly degradable
Benzyl salicylate (118-58-1)	
Persistence and degradability	Rapidly degradable
Linalyl acetate (115-95-7)	
Persistence and degradability	Rapidly degradable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)
Persistence and degradability	Rapidly degradable
Helional (1205-17-0)	
Persistence and degradability	Rapidly degradable

0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]

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Geraniol (106-24-1)			
Persistence and degradability	Rapidly degradable		
Vertenex (32210-23-4)			
Persistence and degradability	Rapidly degradable		
Hydroxy (107-75-5)			
Persistence and degradability	Rapidly degradable		
Geranyl acetate (105-87-3)			
Persistence and degradability	Rapidly degradable		
Toluene (108-88-3)			
Persistence and degradability	Rapidly degradable		
.betaPinene (127-91-3)			
Persistence and degradability	Rapidly degradable		
12.3. Bioaccumulative potential			
CASHMERE KUSH CC-16389 25% in DPG			
Bioaccumulative potential	Not established.		
Bis(2-ethylhexyl) adipate (103-23-1)			
BCF - Fish [1]	(27 dimensionless)		
Partition coefficient n-octanol/water (Log Pow)	8.94 (at 25 °C)		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylin	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)		
BCF - Fish [1]	(1618 dimensionless (whole body w.w.)		
Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)		
Benzyl salicylate (118-58-1)			
Partition coefficient n-octanol/water (Log Pow)	4		
Linalyl acetate (115-95-7)			
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)		
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)		
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)		
Helional (1205-17-0)			
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C)		
Geraniol (106-24-1)			
Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)		
Vertenex (32210-23-4)			
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)		
Hydroxy (107-75-5)			
Partition coefficient n-octanol/water (Log Pow)	1.68 (at 25 °C)		

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Geranyl acetate (105-87-3)	
Partition coefficient n-octanol/water (Log Pow) 4.04	
Toluene (108-88-3)	
Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7)

## 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

Additional information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Product/Packaging disposal recommendations

**Ecological information** 

HP Code

- : Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : 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	umber				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping	g 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	
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 informatio	No supplementary information available				

## 14.6. Special precautions for user

#### **Overland transport**

Not applicable

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#### 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)	(R)-p-mentha-1,8-diene; d-limonene; Toluene; .betaPinene	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)	CASHMERE KUSH CC- 16389 25% in DPG; Linalool; 1- (1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; Hexyl cinnamic aldehyde; Benzyl salicylate; Linalyl acetate; (R)-p-mentha- 1,8-diene; d-limonene; Helional; Geraniol; Vertenex; Hydroxy; Geranyl acetate; Toluene	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)	CASHMERE KUSH CC-16389 25% in DPG; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB); Hexyl cinnamic aldehyde; Benzyl salicylate; (R)-p-mentha-1,8-diene; d-limonene; Helional; Geranyl acetate	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.	(R)-p-mentha-1,8-diene; d-limonene; Toluene; .betaPinene	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.
48.	Toluene	Toluene

#### **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)

#### **Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **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 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)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

#### 15.1.2. National regulations

#### France

Occupational diseases		
Code	Description	
RG 4 BIS	Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them	
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide	

### Germany

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1). Water hazard class (WGK)

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic

environment

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed

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SZW-lijst van reprotoxische stoffen - Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

: None of the components are listed : None of the components are listed

: Toluene is 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

# **SECTION 16: Other information**

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE Data sources

> COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic 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 Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H361	Suspected of damaging fertility or the unborn child.	
H361d	Suspected of damaging 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.	

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Full text of H- and EUH-statements:	
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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.

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