

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3/7/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

 Trade name
 : CHLOE #EU29250F

 UFI
 : J80M-N2UY-J00U-C9U0

Product code : EU29250F

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 : Professional use, Industrial use

Industrial/Professional use spec : Industrial

For professional use only
: Perfumes, fragrances

Use of the substance/mixture : Perfumes, frag 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

FRENCH COLOR & FRAGRANCE International GmbH

Mittlerer Weg 35 DE 79424 Auggen

Germany

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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]

Acute toxicity (oral), Category 4 H302
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Acute Hazard, H400

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H411

Category 2

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

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. Harmful if swallowed. Causes serious eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

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2.2. Label elements

Hazard statements (CLP)

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

Hazard pictograms (CLP)





GHS07

GHS09

Signal word (CLP) : Warning

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

Hexyl salicylate; ACETYL HEXAMETHYL TETRALIN; Phenylethyl alcohol; Cashmeran;

Hexyl cinnamic aldehyde : H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic 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. P270 - Do not eat, drink or smoke when using this product.

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.

Extra phrases For professional users only.

2.3. Other hazards

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]
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371- 33	30.625 – 61.25	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	CAS-No.: 63500-71-0 EC-No.: 405-040-6 EC Index-No.: 603-101-00-3 REACH-no: 01-000015458-64	3.825 – 10.05	Eye Irrit. 2, H319
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	4.25 – 8.5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	2.025 – 4.05	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethylene brassylate	CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314- 33	1.525 – 3.05	Aquatic Chronic 2, H411
ACETYL HEXAMETHYL TETRALIN	CAS-No.: 21145-77-7 EC-No.: 244-240-6	1.225 – 2.45	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phenylethyl alcohol	CAS-No.: 60-12-8 EC-No.: 200-456-2 REACH-no: 01-2119963921- 31	1.2 – 2.4	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Dimethylbenzyl carbinyl acetate(DMBCA)	CAS-No.: 151-05-3 EC-No.: 205-781-3	0.65 – 1.3	Aquatic Chronic 3, H412
Hexyl salicylate	CAS-No.: 6259-76-3 EC-No.: 228-408-6	0.024 – 0.48	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cashmeran	CAS-No.: 33704-61-9 EC-No.: 251-649-3 REACH-no: 01-2119977131- 40	0.2 – 0.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT RE 2, H373 Aquatic Chronic 2, H411
Rose oxide	CAS-No.: 16409-43-1 EC-No.: 240-457-5	0.075 – 0.15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone	CAS-No.: 81-14-1 EC-No.: 201-328-9 EC Index-No.: 609-069-00-7	0.075 – 0.15	Carc. 2, H351 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	0.05 – 0.1	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Cedarwood oil, Virginia	CAS-No.: 8000-27-9 EC-No.: 285-370-3	0.05 – 0.1	Asp. Tox. 1, H304 Aquatic Chronic 1, H410
(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	0.012807 – 0.025614	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 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	0.00191275 – 0.0038255	Flam. Liq. 3, H226

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	0.0000002 – 0.0000004	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

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 general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if

you feel unwell.

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 : Rinse mouth. 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.

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".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

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. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Avoid contact with skin

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

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. 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.

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

8.1.1 National occupational exposure and biological limit values

musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-
14-1)

Austria - Occupational Exposure Limits

Additional Expectation Entire Control of the Contro		
OEL chemical category	Group B Carcinogen	
Toluene (108-88-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	192 mg/m³	
	50 ppm	
IOEL STEL	384 mg/m³	
EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA	192 mg/m³ 50 ppm	

100 ppm

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Toluene (108-88-3)	
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
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

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Toluene (108-88-3)	
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
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)

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Toluene (108-88-3)			
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		
	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		

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Toluene (108-88-3)		
Italy - Occupational Exposure Limits		
OEL TWA	192 mg/m³	
	50 ppm	
OEL chemical category	skin - potential for cutaneous absorption	
Latvia - Occupational Exposure Limits		
OEL TWA	50 mg/m³	
	14 ppm	
OEL chemical category	skin - potential for cutaneous exposure	
Latvia - Biological Exposure Indices		
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	
	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)	

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Toluene (108-88-3)	
	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
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

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Toluene (108-88-3)	
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	<u>'</u>
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 Lin	nits
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)
	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	
BAT	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

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Toluene (108-88-3)				
ACGIH chemical category	Not Classifiable as a Human Carcinogen			
USA - ACGIH - Biological Exposure Indices	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)			
(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	00)			
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			
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			

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.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			
	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

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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

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 inadequate ventilation] wear respiratory protection.

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. Conforms to standard.

Odour : characteristic. characteristic.

Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not available
Boiling point : Not available
Flammability : Not applicable
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
pH : Not available
Viscosity, kinematic : Not available
Solubility : Not available

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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) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

CHLOE #EU29250F			
ATE CLP (oral) 779.485 mg/kg bodyweight			
benzyl benzoate (120-51-4)			
LD50 oral rat	500 mg/kg (Source: NLM_CIP)		
LD50 oral 1160 mg/kg bodyweight			
LD50 dermal rabbit 4000 mg/kg (Source: NLM_CIP)			
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)			
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)		

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1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[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)		
C50 Inhalation - Rat > 5.04 mg/l/4h			
Hexyl salicylate (6259-76-3)			
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)		
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)		
Ethylene brassylate (105-95-3)			
LD50 oral rat	> 5000 mg/kg (Source: ECHA)		
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)		
Dimethylbenzyl carbinyl acetate(DMBCA) (15 ²	1-05-3)		
LD50 oral rat	3300 mg/kg (Source: NLM_CIP)		
LD50 oral	3300 mg/kg bodyweight		
ACETYL HEXAMETHYL TETRALIN (21145-77-	7)		
LD50 oral rat	570 mg/kg (Source: NLM_CIP)		
LD50 oral	1000 mg/kg bodyweight		
LD50 dermal rabbit	> 5 g/kg (Source: NLM_HSDB)		
Phenylethyl alcohol (60-12-8)			
LD50 oral rat	1609 mg/kg (Source: EPA_HPV)		
LD50 oral	1610 mg/kg bodyweight		
LD50 dermal rabbit	2535 mg/kg (Source: EPA_HPV)		
LD50 dermal	2500 mg/kg bodyweight		
LC50 Inhalation - Rat	> 4.63 mg/l/4h		
Cashmeran (33704-61-9)			
LD50 oral	2900 mg/kg bodyweight		
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		
Rose oxide (16409-43-1)			
LD50 oral rat	4300 mg/kg (Source: NLM_CIP)		
LD50 oral	4300 mg/kg bodyweight		
Cedarwood oil, Virginia (8000-27-9)			
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)		
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1)			
LD50 oral rat	10 g/kg		
	1		

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musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-b	outylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-				
LD50 dermal rabbit	> 10 g/kg (Source: NLM_HSDB)				
LC50 Inhalation - Rat	> 2.99 mg/l/4h				
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				
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	-5)				
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)				
LD50 dermal rabbit	> 5 g/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				
Toluene (108-88-3)					
IARC group	3 - Not classifiable				
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	-5)				
IARC group	3 - Not classifiable				
Reproductive toxicity :	Not classified				
STOT-single exposure :	Not classified				
Toluene (108-88-3)					
STOT-single exposure	May cause drowsiness or dizziness.				
STOT-repeated exposure :	Not classified				
Cashmeran (33704-61-9)					
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.				
Toluene (108-88-3)					
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.				
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 : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

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

(chronic)

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			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyli	ndeno[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			
Phenylethyl alcohol (60-12-8)				
EC50 - Crustacea [1]	287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna)			
EC50 72h - Algae [1]	490 mg/l (Species: Desmodesmus subspicatus)			
Cashmeran (33704-61-9)				
LC50 - Fish [1]	10.3 mg/l (Exposure time: 96 h - Species: Danio rerio [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)			
(R)-p-mentha-1,8-diene; 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)			

12.2. Persistence and degradability

CHLOE #EU29250F			
Persistence and degradability Rapidly degradable			
benzyl benzoate (120-51-4)			
Persistence and degradability	May cause long-term adverse effects in the environment.		
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)			
Persistence and degradability Rapidly degradable			
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)			
Persistence and degradability	Rapidly degradable		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)			
Persistence and degradability	Rapidly degradable		

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Persistence and degradability Rapidly degradable Ethylene brassylate (105-95-3) Persistence and degradability Rapidly degradable Dimethylbenzyl carbinyl acetate(DMBCA) (151-05-3) Persistence and degradability Rapidly degradable ACETYL HEXAMETHYL TETRALIN (21145-77-7) Persistence and degradability Rapidly degradable Phenylethyl alcohol (60-12-8) Persistence and degradability Rapidly degradable Cashmeran (33704-61-9) Persistence and degradability Rapidly degradable Hexyl clinnamic aldehyde (101-86-0) Persistence and degradability Rapidly degradable Rose oxide (16409-43-1) Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential		
Ethylene brassylate (105-95-3) Persistence and degradability Rapidly degradable Dimethylbenzyl carbinyl acetate(DMBCA) (151-05-3) Persistence and degradability Rapidly degradable ACETYL HEXAMETHYL TETRALIN (21145-77-7) Persistence and degradability Rapidly degradable Phenylethyl alcohol (60-12-8) Persistence and degradability Rapidly degradable Cashmeran (33704-61-9) Persistence and degradability Rapidly degradable Mexyl cinnamic aldehyde (101-86-0) Persistence and degradability Rapidly degradable Rose oxide (16409-43-1) Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butyl-acetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable 1.2.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.		
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Phenylethyl alcohol (60-12-8) Persistence and degradability Rapidly degradable Cashmeran (33704-61-9) Persistence and degradability Rapidly degradable Hexyl cinnamic aldehyde (101-86-0) Persistence and degradability Rapidly degradable Rose oxide (16409-43-1) Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bloaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	ACETYL HEXAMETHYL TETRALIN (21145-77-7	7)
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Persistence and degradability Rapidly degradable Hexyl cinnamic aldehyde (101-86-0) Persistence and degradability Rapidly degradable Rose oxide (16409-43-1) Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
Hexyl cinnamic aldehyde (101-86-0) Persistence and degradability Rapidly degradable Rose oxide (16409-43-1) Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Cashmeran (33704-61-9)	
Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable 1.betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
Rose oxide (16409-43-1) Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Hexyl cinnamic aldehyde (101-86-0)	
Persistence and degradability Rapidly degradable Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable .betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
Cedarwood oil, Virginia (8000-27-9) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable .betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Rose oxide (16409-43-1)	
Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable .betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable .betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Cedarwood oil, Virginia (8000-27-9)	
14-1) Persistence and degradability Rapidly degradable Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable .betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
Toluene (108-88-3) Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable .betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.		utylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-
Persistence and degradability Rapidly degradable (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Persistence and degradability Rapidly degradable .betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
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Persistence and degradability Rapidly degradable DetaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
.betaPinene (127-91-3) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential Not established.	(R)-p-mentha-1,8-diene; d-limonene (5989-27-5	5)
Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	.betaPinene (127-91-3)	
benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	Persistence and degradability	Rapidly degradable
Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established.	12.3. Bioaccumulative potential	
Bioaccumulative potential Not established.	benzyl benzoate (120-51-4)	
	Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
	Bioaccumulative potential	Not established.
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)		
Partition coefficient n-octanol/water (Log Pow) 1.65 (at 23 °C (at pH >6.09-<6.74)	Partition coefficient n-octanol/water (Log Pow)	1.65 (at 23 °C (at pH >6.09-<6.74)
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.)	BCF - Fish [1]	(1618 dimensionless (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow) 5.3 (at 25 °C (at pH 7)	Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)

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Hexyl salicylate (6259-76-3)				
Partition coefficient n-octanol/water (Log Pow)	5.5 (at 30 °C (at pH 7)			
Ethylene brassylate (105-95-3)				
Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7)			
Dimethylbenzyl carbinyl acetate(DMBCA) (151	I-05-3)			
Partition coefficient n-octanol/water (Log Pow)	3.64 (at 25 °C (at pH >6-<7)			
ACETYL HEXAMETHYL TETRALIN (21145-77-	7)			
Partition coefficient n-octanol/water (Log Pow)	5.7 (at 24 °C)			
Phenylethyl alcohol (60-12-8)				
Partition coefficient n-octanol/water (Log Pow)	1.36 (at 20 °C (at pH 7)			
Cashmeran (33704-61-9)				
BCF - Fish [1]	(81 dimensionless (whole body w.w.)			
Partition coefficient n-octanol/water (Log Pow)	4.2 (at 20 °C)			
Rose oxide (16409-43-1)				
Partition coefficient n-octanol/water (Log Pow)	3.3 (at 23 °C (at pH 6.5)			
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1)				
Partition coefficient n-octanol/water (Log Pow)	4.24 (at 25 °C)			
Toluene (108-88-3)				
Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7)			
(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)			

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.

: HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

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

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SECTION 14: Transport information

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

ADR	IMDG IATA ADN		ADN	RID			
14.1. UN number or ID number							
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082			
14.2. UN proper shippin	g name						
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super)	Environmentally hazardous substance, liquid, n.o.s. (Iso E Super)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super)			
Transport document descr	iption						
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Iso E Super), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Iso E Super), 9, III			
14.3. Transport hazard o	class(es)						
9	9	9	9	9			
**************************************	**************************************	2	**************************************	**************************************			
14.4. Packing group							
III	III	III	III	III			
14.5. Environmental haz	ards						
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes			
No supplementary informatio	n available						

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

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Orange plates : 90

Tunnel restriction code (ADR) : -

EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) : PP1 Special packing provisions (IMDG) IBC packing instructions (IMDG) : IBC03 : T4 Tank instructions (IMDG) Tank special provisions (IMDG) TP1, TP29 : F-A EmS-No. (Fire) EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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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)	Toluene ; (R)-p-mentha- 1,8-diene; d-limonene ; .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)	CHLOE #EU29250F; benzyl benzoate; 1- (1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; tetrahydro-2-isobutyl-4- methylpyran-4-ol, mixed isomers (cis and trans); Hexyl salicylate; Phenylethyl alcohol; Cashmeran; Hexyl cinnamic aldehyde; Rose oxide; Cedarwood oil, Virginia; musk ketone; 3,5-dinitro-2,6-dimethyl-4- tert-butylacetophenone; 4'-tert-butyl-2', 6'- dimethyl-3',5'- dinitroacetophenone; Toluene; (R)-p-mentha- 1,8-diene; d-limonene	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)	CHLOE #EU29250F; benzyl benzoate; 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 salicylate; Ethylene brassylate; Dimethylbenzyl carbinyl acetate(DMBCA); Cashmeran; Hexyl cinnamic aldehyde; Cedarwood oil, Virginia; musk ketone; 3,5-dinitro- 2,6-dimethyl-4-tert- butylacetophenone; 4'- tert-butyl-2', 6'-dimethyl- 3',5'-dinitroacetophenone; (R)-p-mentha-1,8-diene; d-limonene	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	Reference code Applicable on Entry title or description			
40.	Toluene ; (R)-p-mentha- 1,8-diene; d-limonene ; .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

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

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

Netherlands

ABM category : A(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic

environment

SZW-lijst van kankerverwekkende stoffen : Cedarwood oil, Virginia is listed SZW-lijst van mutagene stoffen : Cedarwood oil, Virginia is 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

Danish National Regulations

: Emergency management guidelines for the storage of flammable liquids must be followed

: 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

Full text of H- and EUF	Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
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		
Carc. 2	Carcinogenicity, Category 2		
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.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
H351	Suspected of causing cancer.		
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.		
Repr. 2	Reproductive toxicity, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		

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Full text of H- and EUH-statements:	
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.