

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 : CITRUS POMEGRANATE (HEMP TYPE) OS CC-16391 25% in DPG

Product code : CC-16391_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

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

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]

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]

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH208 - Contains Hexyl cinnamic aldehyde, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-

 $tetramethyl\hbox{-}2-naphthalenyl) ethanone, \ Grapefruit\ oil,\ Linalyl\ acetate,\ citral.\ May\ produce\ an$

allergic reaction.

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

EN (English) 1/33

Safety Data Sheet

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

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-	9.85 – 19.7125	Not classified
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092- 50	0.3 – 0.6	Skin Sens. 1, H317 Aquatic Chronic 2, H411
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-	0.175 – 0.3625	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	0.175 – 0.3375	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Grapefruit oil	CAS-No.: 8016-20-4 EC-No.: 600-007-4	0.15 – 0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789-	0.0629094 – 0.1318641	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
citral substance with national workplace exposure limit(s) (BE, ES, IE, PL, PT)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829- 23	0.05 – 0.1125	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, 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.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408- 32	0.025 – 0.05	Flam. Liq. 3, H226

EN (English) 2/33

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Allyl heptanoate	CAS-No.: 142-19-8 EC-No.: 205-527-1 REACH-no: 01-2119488961- 23	0.025 – 0.025	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412
(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-	0.012807 – 0.0192105	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Ethyl acetoacetate substance with national workplace exposure limit(s) (RO)	CAS-No.: 141-97-9 EC-No.: 205-516-1	0 – 0.0125	Not classified
.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 – 0.010369125	Flam. Liq. 3, H226
Dipropylene glycol monomethyl ether 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.: 34590-94-8 EC-No.: 252-104-2	≤ 0.0062	Not classified
.alphaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 80-56-8 EC-No.: 201-291-9	≤ 0.0005	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	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	0.0000002 – 0.0000003	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 : 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.

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

No additional information available

EN (English) 3/33

Safety Data Sheet

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

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

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

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

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

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

EN (English) 4/33

Safety Data Sheet

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

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

8.1.1 National occupational exposure and biological limit values

Bis(2-ethylhexyl) adipate (103-23-1)		
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	400 mg/m³	
citral (5392-40-5)		
Belgium - Occupational Exposure Limits		
OEL TWA	32 mg/m³ (vapor and aerosol)	
	5 ppm (vapor and aerosol)	
OEL chemical category	Skin	
Ireland - Occupational Exposure Limits		
OEL TWA	5 ppm	
OEL STEL	15 ppm (calculated)	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	27 mg/m³	
NDSCh (OEL STEL)	54 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	5 ppm (inhalable fraction; vapor)	
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 ppm (inhalable fraction and vapor)	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	5 ppm (inhalable fraction and vapor)	

EN (English) 5/33

Safety Data Sheet

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

citral (5392-40-5)		
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer	
Toluene (108-88-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
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	
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	

EN (English) 6/33

Safety Data Sheet

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

Toluene (108-88-3)		
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	
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	

EN (English) 7/33

Safety Data Sheet

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

Toluene (108-88-3)	
	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 (TR	GS 900)
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

EN (English) 8/33

Safety Data Sheet

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

Toluene (108-88-3)	
	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	
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

EN (English) 9/33

Safety Data Sheet

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

Toluene (108-88-3)	
	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
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	
	192 mg/m³

EN (English) 10/33

Safety Data Sheet

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

Toluene (108-88-3)		
	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 Lim	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	

EN (English) 11/33

Safety Data Sheet

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

Toluene (108-88-3)	
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
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)
(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 90	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

EN (English) 12/33

Safety Data Sheet

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

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

EN (English) 13/33

Safety Data Sheet

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

.betaPinene (127-91-3)		
	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	
Dipropylene glycol monomethyl ether (34590	-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL		
IOEL TWA	308 mg/m³	
	50 ppm	
Remark	Possibility of significant uptake through the skin	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	307 mg/m³ (mixed isomers)	
	50 ppm (mixed isomers)	
MAK (OEL STEL)	614 mg/m³ (isomers mixtures)	
	100 ppm (isomers mixtures)	
OEL chemical category	Skin notation	
Belgium - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	Skin, Skin notation	
Bulgaria - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA)	308 mg/m³	
	50 ppm	
OEL chemical category	Skin notation	
Cyprus - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	Skin-potential for cutaneous absorption	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	270 mg/m³	
OEL chemical category	Potential for cutaneous absorption	
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EN (English) 14/33

Safety Data Sheet

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

Dipropylene glycol monomethyl ether (34590-94-8)		
Denmark - Occupational Exposure Limits		
OEL TWA	309 mg/m³	
	50 ppm	
OEL STEL	618 mg/m³	
	100 ppm	
OEL chemical category	Potential for cutaneous absorption	
Estonia - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	Skin notation	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	310 mg/m³	
	50 ppm	
OEL chemical category	Potential for cutaneous absorption	
France - Occupational Exposure Limits		
VME (OEL TWA)	308 mg/m³ (restrictive limit)	
	50 ppm (restrictive limit)	
OEL chemical category	Risk of cutaneous absorption	
Germany - Occupational Exposure Limits (TRGS 900)		
AGW (OEL TWA)	310 mg/m³ (isomer mixture)	
	50 ppm (isomer mixture)	
Gibraltar - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	Skin notation	
Greece - Occupational Exposure Limits		
OEL TWA	600 mg/m³	
	100 ppm	
OEL STEL	900 mg/m³	
	150 ppm	
OEL chemical category	skin - potential for cutaneous absorption	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	308 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA	308 mg/m³ ((2-Methoxymethylethoxy)propanol)	
	50 ppm ((2-Methoxymethylethoxy)propanol)	
OEL STEL	924 mg/m³ (calculated (2-(2-Methoxypropoxy)-1-propanol)	
	150 ppm (calculated (2-(2-Methoxypropoxy)-1-propanol)	
OEL chemical category	Potential for cutaneous absorption	

EN (English) 15/33

Safety Data Sheet

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

Dipropylene glycol monomethyl ether (34590-94-8)		
Italy - Occupational Exposure Limits		
OEL TWA	308 mg/m³ (1-(3-Methoxypropoxy)propan-1-ol)	
	50 ppm (1-(3-Methoxypropoxy)propan-1-ol)	
OEL chemical category	skin - potential for cutaneous absorption	
Latvia - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	skin - potential for cutaneous exposure	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	300 mg/m³ (2-(2-Methoxypropoxy)-propanol)	
	50 ppm (2-(2-Methoxypropoxy)-propanol)	
TPRV (OEL STEL)	450 mg/m³ (2-(2-Methoxypropoxy)-propanol)	
	75 ppm (2-(2-Methoxypropoxy)-propanol)	
OEL chemical category	Skin notation	
Luxembourg - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	Possibility of significant uptake through the skin	
Malta - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	Possibility of significant uptake through the skin	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	300 mg/m³	
	48.7 ppm	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	240 mg/m³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol and 2-(2-Methoxy-1-methylethoxy)propan-1-ol)	
NDSCh (OEL STEL)	480 mg/m³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol, 2-(2-Methoxy-1-methylethoxy)propan-1-ol)	
Portugal - Occupational Exposure Limits		
OEL TWA	308 mg/m³ (indicative limit value)	
	50 ppm (indicative limit value)	
OEL STEL	150 ppm	
OEL chemical category	skin - potential for cutaneous exposure indicative limit value	
Romania - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL chemical category	Skin notation	

EN (English) 16/33

Safety Data Sheet

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

Dipropylene glycol monomethyl ether (34590-94-8)		
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA)	308 mg/m³	
	50 ppm	
OEL chemical category	Potential for cutaneous absorption	
Slovenia - Occupational Exposure Limits		
OEL TWA	308 mg/m³	
	50 ppm	
OEL STEL	308 mg/m³	
	50 ppm	
OEL chemical category	Potential for cutaneous absorption	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	308 mg/m³ (indicative limit value)	
	50 ppm (indicative limit value)	
OEL chemical category	skin - potential for cutaneous absorption	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	300 mg/m³	
	50 ppm	
KGV (OEL STEL)	450 mg/m³	
	75 ppm	
OEL chemical category	Skin notation	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	308 mg/m³	
	50 ppm	
WEL STEL (OEL STEL)	924 mg/m³ (calculated)	
	150 ppm (calculated)	
WEL chemical category	Potential for cutaneous absorption	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	300 mg/m³	
	50 ppm	
Korttidsverdi (OEL STEL)	375 mg/m³ (value calculated)	
	75 ppm (value calculated)	
OEL chemical category	Skin notation	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	300 mg/m³ (aerosol, vapour)	
	50 ppm (aerosol, vapour)	
KZGW (OEL STEL)	300 mg/m³ (aerosol, vapour)	
	50 ppm (aerosol, vapour)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	50 ppm (Dipropylene glycol methyl ether)	

EN (English) 17/33

Safety Data Sheet

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

.alphaPinene (80-56-8)	
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)
OEL chemical category	Skin notation
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

EN (English) 18/33

Safety Data Sheet

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

isopentyl acetate (123-92-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	270 mg/m³
	50 ppm
IOEL STEL	540 mg/m³
	100 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	270 mg/m³ (Pentyl acetate (all isomers))
	50 ppm (Pentyl acetate (all isomers))
MAK (OEL STEL)	540 mg/m³ (Pentylacetate)
	100 ppm (Pentylacetate)
Belgium - Occupational Exposure Limits	
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³
	100 ppm
Bulgaria - Occupational Exposure Limits	The Ferm
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³
022 0122	100 ppm
Croatia - Occupational Exposure Limits	Тоо ури
GVI (OEL TWA)	270 mg/m³
OVI (OLE IVIA)	50 ppm
KGVI (OEL STEL)	540 mg/m³
NOVI (OLE STEL)	
Communicational Evanceura Limite	100 ppm
Cyprus - Occupational Exposure Limits	070
OEL TWA	270 mg/m³
051, 0751	50 ppm
OEL STEL	540 mg/m³
	100 ppm
Denmark - Occupational Exposure Limits	T
OEL TWA	271 mg/m³ (Amyl acetate, all isomers)
	50 ppm (Amyl acetate, all isomers)
OEL STEL	540 mg/m³
	100 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³

EN (English) 19/33

Safety Data Sheet

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

isopentyl acetate (123-92-2)	
	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	270 mg/m³ (Pentyl acetate)
	50 ppm (Pentyl acetate)
HTP (OEL STEL)	540 mg/m³
	100 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	270 mg/m³ (restrictive limit)
	50 ppm (restrictive limit)
VLE (OEL C/STEL)	540 mg/m³ (restrictive limit)
	100 ppm (restrictive limit)
Germany - Occupational Exposure Limits (TRGS	S 900)
AGW (OEL TWA)	270 mg/m³
	50 ppm
Gibraltar - Occupational Exposure Limits	
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³
	100 ppm
Greece - Occupational Exposure Limits	•
OEL TWA	530 mg/m³
	100 ppm
OEL STEL	800 mg/m³
	150 ppm
Hungary - Occupational Exposure Limits	·
AK (OEL TWA)	270 mg/m³
CK (OEL STEL)	540 mg/m³
Ireland - Occupational Exposure Limits	·
OEL TWA	260 mg/m³
	50 ppm
OEL STEL	520 mg/m³
	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³
	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	270 mg/m³

EN (English) 20/33

Safety Data Sheet

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

isopentyl acetate (123-92-2)	
	50 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	270 mg/m³
	50 ppm
TPRV (OEL STEL)	540 mg/m³
	100 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³
	100 ppm
Malta - Occupational Exposure Limits	
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³
	100 ppm
Netherlands - Occupational Exposure Limits	
TGG-15min (OEL STEL)	530 mg/m³
	98.1 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	250 mg/m³
NDSCh (OEL STEL)	500 mg/m³
Portugal - Occupational Exposure Limits	
OEL TWA	270 mg/m³ (indicative limit value)
	50 ppm (indicative limit value (Pentyl acetate, all isomers)
OEL STEL	540 mg/m³ (indicative limit value)
	100 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	270 mg/m³
	50 ppm
OEL STEL	540 mg/m³
	100 ppm
Slovakia - Occupational Exposure Limits	•
NPHV (OEL TWA)	270 mg/m³
	50 ppm
NPHV (OEL C)	540 mg/m³
Slovenia - Occupational Exposure Limits	•
OEL TWA	270 mg/m³
	50 ppm
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EN (English) 21/33

Safety Data Sheet

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

isopentyl acetate (123-92-2)		
OEL STEL	540 mg/m³	
	100 ppm	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	270 mg/m³ (indicative limit value)	
	50 ppm (indicative limit value)	
VLA-EC (OEL STEL)	540 mg/m³	
	100 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	270 mg/m³ (Pentyl acetates)	
	50 ppm (Pentyl acetates)	
KGV (OEL STEL)	540 mg/m³ (Pentyl acetates)	
	100 ppm (Pentyl acetates)	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	260 mg/m³	
	50 ppm	
Korttidsverdi (OEL STEL)	325 mg/m³ (value calculated)	
	75 ppm (value calculated)	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	260 mg/m³ (Pentyl acetate all isomers)	
	50 ppm (Pentyl acetate all isomers)	
KZGW (OEL STEL)	260 mg/m³ (Pentyl acetate all isomers)	
	50 ppm (Pentyl acetate all isomers)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	50 ppm (Pentyl acetate, all isomers)	
ACGIH OEL STEL	100 ppm (Pentyl acetate, all isomers)	
Ethyl acetoacetate (141-97-9)		
Romania - Occupational Exposure Limits		
OEL TWA	100 mg/m³	
	19 ppm	
OEL STEL	200 mg/m³	
	38 ppm	

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

EN (English) 22/33

Safety Data Sheet

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

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):



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 Flash point : > 93 °C Auto-ignition temperature : Not available 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

EN (English) 23/33

Safety Data Sheet

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

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

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.

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

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
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
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)
LC50 Inhalation - Rat	> 5.04 mg/l/4h

EN (English) 24/33

Safety Data Sheet

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

Grapefruit oil (8016-20-4)		
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)	
Linalyl acetate (115-95-7)		
LD50 oral rat	14550 mg/kg (Source: EPA_HPV)	
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)	
LC50 Inhalation - Rat	> 18.94 mg/l (Exposure time: 8 h Source: ECHA)	
citral (5392-40-5)		
LD50 oral rat	4960 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	2250 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	
(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)	
Dipropylene glycol monomethyl ether (34590-	94-8)	
LD50 oral rat	5.35 g/kg (Source: NLM_HSDB)	
LD50 dermal rabbit	9500 mg/kg (Source: NLM_CIP)	
.alphaPinene (80-56-8)		
LD50 oral rat	3700 mg/kg (Source: NLM_CIP)	
LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)	
Allyl heptanoate (142-19-8)		
LD50 oral rat	500 mg/kg (Source: NLM_CIP)	
LD50 oral	218 mg/kg	
LD50 dermal rabbit	810 mg/kg (Source: ECHA_API)	
LD50 dermal	810 mg/kg	
Ethyl acetoacetate (141-97-9)		
LD50 oral rat	3980 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	> 5000 mg/kg (Source: NLM_CIP)	
	Not classified Resed on available data, the classification criteria are not met	
Additional information : Serious eye damage/irritation :	Based on available data, the classification criteria are not met Not classified	
Additional information :	Based on available data, the classification criteria are not met	
Respiratory or skin sensitisation :	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	

EN (English) 25/33

Safety Data Sheet

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

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

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

IARC group 3 - Not classifiable

: Not classified Reproductive toxicity

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.

: Not classified STOT-repeated exposure

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

Hydrocarbon

Toluene (108-88-3) Yes

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

Hydrocarbon Yes

.beta.-Pinene (127-91-3)

Hydrocarbon Yes

.alpha.-Pinene (80-56-8)

Yes Hydrocarbon

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

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

EN (English) 26/33

Safety Data Sheet

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

Bis(2-ethylhexyl) adipate (103-23-1)	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)		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylii	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		
Linalyl acetate (115-95-7)			
LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)		
citral (5392-40-5)			
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)		
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)		
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)		
Dipropylene glycol monomethyl ether (34590-	94-8)		
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
EC50 - Crustacea [1]	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
.alphaPinene (80-56-8)			
LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)		
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
Ethyl acetoacetate (141-97-9)			
LC50 - Fish [1]	298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)		
LC50 - Fish [2]	290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)		
EC50 - Crustacea [1]	646 mg/l (Exposure time: 48 h - Species: Daphnia magna)		

EN (English) 27/33

Safety Data Sheet

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

Ethyl acetoacetate (141-97-9)	
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
12.2. Persistence and degradability	
CITRUS POMEGRANATE (HEMP TYPE) OS C	C-16391 25% in DPG
Persistence and degradability	Not established.
Bis(2-ethylhexyl) adipate (103-23-1)	
Persistence and degradability	Rapidly degradable
Hexyl cinnamic aldehyde (101-86-0)	
Persistence and degradability	Rapidly degradable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyli	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)
Persistence and degradability	Rapidly degradable
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetrameth	yl-2-naphthalenyl)ethanone (54464-57-2)
Persistence and degradability	Rapidly degradable
Grapefruit oil (8016-20-4)	
Persistence and degradability	Rapidly degradable
Linalyl acetate (115-95-7)	
Persistence and degradability	Rapidly degradable
citral (5392-40-5)	
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
Dipropylene glycol monomethyl ether (34590	-94-8)
Persistence and degradability	Rapidly degradable
.alphaPinene (80-56-8)	
Persistence and degradability	Rapidly degradable
isopentyl acetate (123-92-2)	
Persistence and degradability	Rapidly degradable
Allyl heptanoate (142-19-8)	
Persistence and degradability	Rapidly degradable
Ethyl acetoacetate (141-97-9)	
Persistence and degradability	Rapidly degradable

EN (English) 28/33

Safety Data Sheet

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

12.3. Bioaccumulative potential

CITRUS POMEGRANATE (HEMP TYPE) OS CC-16391 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-hexamethylito-elo(5,6-cj.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) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.73 (at 20 °C (at pH 7) Citral (5492-40-5) Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °C (at pH 7) Citral (5492-40-5) Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °C (at pH 7) Dipropylene glycol momethyl ether (34599-94-94) Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °C (at pH 7.2) Dipropylene glycol momethyl ether (34590-94-94-94) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetacetate (141-97-9) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3)	12.3. Bioaccumulative potential			
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-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) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 25 °C) Toluene (108-88-3) Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °C (at pH 7) Citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °C (at pH 7) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetacetate (141-97-9)	CITRUS POMEGRANATE (HEMP TYPE) OS CC-16391 25% in DPG			
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-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) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 25 °C) Toluene (108-88-3) Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) alpha-Pinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Bioaccumulative potential	Not established.		
Partition coefficient n-octanol/water (Log Pow) 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) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 2.76 (at 25 °C) Citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.73 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) alpha-Pinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Bis(2-ethylhexyl) adipate (103-23-1)			
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylin-deno[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) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	BCF - Fish [1]	(27 dimensionless)		
BCF - Fish [1] (1618 dimensionless (whole body w.w.) Partition coefficient n-octanol/water (Log Pow) 5.3 (at 25 °C (at pH 7) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) .alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	8.94 (at 25 °C)		
Partition coefficient n-octanol/water (Log Pow) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 3.5 (at 25 °C (at pH 7) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylir	ndeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)		
Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3)	BCF - Fish [1]	(1618 dimensionless (whole body w.w.)		
Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) .alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	5.3 (at 25 °C (at pH 7)		
citral (5392-40-5) Partition coefficient n-octanol/water (Log Pow) 2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Linalyl acetate (115-95-7)			
Partition coefficient n-octanol/water (Log Pow) 2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) .alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)		
Toluene (108-88-3) Partition coefficient n-octanol/water (Log Pow) (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Partition coefficient n-octanol/water (Log Pow) A .38 (at 37 °C (at pH 7.2) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	citral (5392-40-5)			
Partition coefficient n-octanol/water (Log Pow) (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) Partition coefficient n-octanol/water (Log Pow) A.38 (at 37 °C (at pH 7.2) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	2.76 (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) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) .alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Toluene (108-88-3)	Toluene (108-88-3)		
Partition coefficient n-octanol/water (Log Pow) 4.38 (at 37 °C (at pH 7.2) Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) .alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7)		
Dipropylene glycol monomethyl ether (34590-94-8) Partition coefficient n-octanol/water (Log Pow) 0.35 (at 25 °C (at pH 7) .alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	(R)-p-mentha-1,8-diene; d-limonene (5989-27-	(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Partition coefficient n-octanol/water (Log Pow) alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) 4.1 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)		
.alphaPinene (80-56-8) Partition coefficient n-octanol/water (Log Pow) isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Dipropylene glycol monomethyl ether (34590-94-8)			
Partition coefficient n-octanol/water (Log Pow) isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	0.35 (at 25 °C (at pH 7)		
isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	.alphaPinene (80-56-8)			
Partition coefficient n-octanol/water (Log Pow) Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	4.1		
Allyl heptanoate (142-19-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	isopentyl acetate (123-92-2)			
Partition coefficient n-octanol/water (Log Pow) 3.97 (at 20 °C (at pH 5.3) Ethyl acetoacetate (141-97-9)	Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)		
Ethyl acetoacetate (141-97-9)	Allyl heptanoate (142-19-8)			
	Partition coefficient n-octanol/water (Log Pow)	3.97 (at 20 °C (at pH 5.3)		
Partition coefficient n-octanol/water (Log Pow) 0.8 (at 20 °C)	Ethyl acetoacetate (141-97-9)			
	Partition coefficient n-octanol/water (Log Pow)	0.8 (at 20 °C)		

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.

EN (English) 29/33

Safety Data Sheet

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

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.

: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one

or more sectors of the environment

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

EN (English) 30/33

Safety Data Sheet

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

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	EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description		
3(a)	Grapefruit oil; Toluene; (R)-p-mentha-1,8-diene; d-limonene; .beta Pinene; .alphaPinene; isopentyl 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 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)	Hexyl cinnamic aldehyde; 1-(1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; Grapefruit oil; Linalyl acetate; citral; Toluene; (R)-p-mentha-1,8-diene; d-limonene; Allyl heptanoate	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)	CITRUS POMEGRANATE (HEMP TYPE) OS CC-16391 25% in DPG; Hexyl cinnamic aldehyde; 1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8- hexamethylindeno[5,6- c]pyran; galaxolide; (HHCB); 1- (1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; Grapefruit oil; (R)-p- mentha-1,8-diene; d- limonene; Allyl heptanoate	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		
40.	Grapefruit oil; Toluene; (R)-p-mentha-1,8-diene; d-limonene; .betaPinene; isopentyl acetate	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)

EN (English) 31/33

Safety Data Sheet

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

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(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

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Softwoeding : None of the components are listed : None of the components are listed

Vruchtbaarheid
SZW-lijst van reprotoxische stoffen – Ontwikkeling : Toluene is listed

Denmark

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

Danish National Regulations : 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

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

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.

EN (English) 32/33

Safety Data Sheet

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

Full text of H- and EUH	H-statements:
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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
EUH208	Contains Hexyl cinnamic aldehyde, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone, Grapefruit oil, Linalyl acetate, citral. May produce an allergic reaction.
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.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
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
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.

EN (English) 33/33