#### Safety Data Sheet

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

# CandleCraft

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

#### 1.1. Product identifier

Product form : Mixture

Product name : EGG NOG CC-13087 10%

Product code : CC-13087\_10%
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, fragranc 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, Category 3 H412

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 Eugenol, Cinnamic aldehyde, beta-Caryophyllene. May produce an

allergic reaction.

Extra phrases : For professional users only.

#### 2.3. Other hazards

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

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## **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	3.4 – 6.8	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802- 33	0.42 – 0.88	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242- 45	0.204 – 0.42	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Hexamethylindanopyran	CAS-No.: 1222-05-5 EC-No.: 214-946-9 EC Index-No.: 603-212-00-7 REACH-no: 01-2119488227- 29	0.12 – 0.235	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237- 53	0.044 – 0.12	Skin Sens. 1B, H317 Asp. Tox. 1, H304
Ethyl acetate 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); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-	0.01 – 0.025	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336
.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	0.004 – 0.0216	Flam. Liq. 3, H226
.betaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 127-91-3 EC-No.: 204-872-5	0.004 – 0.0216	Flam. Liq. 3, H226
Isobutyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH)	CAS-No.: 110-19-0 EC-No.: 203-745-1 EC Index-No.: 607-026-00-7	0.01 – 0.015	Flam. Liq. 2, H225 STOT SE 3, H336
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	0.002 – 0.0096	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
p-Cymene substance with national workplace exposure limit(s) (DK, EE, LT, LV, SE)	CAS-No.: 99-87-6 EC-No.: 202-796-7 EC Index-No.: 601-094-00-1	0.0004 – 0.004	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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

#### **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.

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#### 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.Strong bases. Strong acids.

Incompatible products Incompatible materials

: Sources of ignition. Direct sunlight.

#### 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

d-Limonene (5989-27-5)		
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	140 mg/m³	
HTP (OEL TWA) [2]	25 ppm	
HTP (OEL STEL)	280 mg/m³	
HTP (OEL STEL) [ppm]	50 ppm	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Chemical category	Skin notation, Skin sensitization	
Slovenia - Occupational Exposure Limits		
OEL TWA	28 mg/m³	
OEL TWA [ppm]	5 ppm	
OEL STEL	112 mg/m³	
OEL STEL [ppm]	20 ppm	

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d-Limonene (5989-27-5)		
OEL chemical category	Potential for cutaneous absorption	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	168 mg/m³	
VLA-ED (OEL TWA) [2]	30 ppm	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	140 mg/m³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)	
OEL chemical category	Allergenic substance	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	40 mg/m³	
MAK (OEL TWA) [2]	7 ppm	
KZGW (OEL STEL)	80 mg/m³	
KZGW (OEL STEL) [ppm]	14 ppm	
OEL chemical category	Sensitizer	
.alphaPinene (80-56-8)		
Belgium - Occupational Exposure Limits		
OEL TWA [ppm]	20 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
OEL TWA [ppm]	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
OEL STEL	300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
OEL STEL [ppm]	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	150 mg/m³	
IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL)	300 mg/m³	
TPRV (OEL STEL) [ppm]	50 ppm	
Portugal - Occupational Exposure Limits		
OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)	
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	113 mg/m³	
VLA-ED (OEL TWA) [2]	20 ppm	

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

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Seeden - Occupational Exposure Limits			
NGV (OEL TWA)   150 mg/m²   25 ppm	.betaPinene (127-91-3)		
NGV (OEL TWA) [ppm]   25 ppm			
KTV (OEL STEL) [ppm] 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) [1] 140 mg/m² Grenseverdi (OEL TWA) [1] 175 mg/m² (value calculated) Kortidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated) Kortidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)  USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes) ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes) ACGIH OEL TWA [ppm] 21 ppm (Turpentine and selected Monoterpenes) ACGIH OEL TWA [ppm] 35 mg/m² (Methylisopropylbenzenes)  OEL TWA [1] 135 mg/m² (Methylisopropylbenzenes) OEL TWA [2] 25 ppm (Methylisopropylbenzenes) OEL STEL 270 mg/m² (Methylisopropylbenzenes) OEL STEL 270 mg/m² (Methylisopropylbenzenes) OEL STEL [ppm] 50 ppm (Methylisopropylbenzenes) OEL STEL [ppm] 25 ppm OEL STEL 190 mg/m² OCCUpational Exposure Limits OEL TWA [10 mg/m² [10			
KTV (OEL STEL) [ppm] 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) [1] 140 mg/m² Grenseverdi (OEL TWA) [2] 25 ppm Kottidsverdi (OEL STEL) 175 mg/m² (value calculated) Kottidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  p-Cymene (99-87-6) Demark - Occupational Exposure Limits OEL TWA [1] 135 mg/m² (Methylisopropylbenzenes) OEL TWA [2] 25 ppm (Methylisopropylbenzenes) OEL STEL [ppm] 50 ppm (Methylisopropylbenzenes) OEL STEL [ppm] 50 ppm (Methylisopropylbenzenes)  Estonia - Occupational Exposure Limits OEL TWA [2] 25 ppm OEL TWA [2] 25 ppm OEL STEL [20	NGV (OEL TWA) [ppm]	25 ppm	
OEL chemical category  Norway - Occupational Exposure Limits  Gresseverdi (OEL TWA) [1]  Gresseverdi (OEL TWA) [2]  Kortidoverdi (OEL STEL)  Kortidoverdi (OEL STEL)  Kortidoverdi (OEL STEL)  Sypm (Value calculated)  USA - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm]  20 ppm (Turpentine and selected Monoterpenes)  ACGIH chemical category  Not Classifiable as a Human Carcinogen, dermal sensitizer  p-Cymene (99-87-6)  Denmark - Occupational Exposure Limits  OEL TWA [1]  135 mg/m² (Melthylisopropylbenzenes)  OEL STEL  OEL STEL [ppm]  50 ppm (Melthylisopropylbenzenes)  OEL STEL [ppm]  Soppm (Melthylisopropylbenzenes)  Estonia - Occupational Exposure Limits  OEL TWA [140 mg/m²  OEL TWA [150 mg/m² (Melthylisopropylbenzenes)  DEL STEL [ppm]  Sppm  CEL TWA [150 mg/m² (Melthylisopropylbenzenes)  DEL STEL [ppm]  Sppm  CEL TWA [150 mg/m² (Melthylisopropylbenzenes)  DEL TWA [150 mg/m² (Melthylisopropylbenzenes)  DEL TWA [150 mg/m² (Melthylisopropylbenzenes)  DEL TWA [150 mg/m² (Melthylisopropylbenzenes)  Estonia - Occupational Exposure Limits  OEL TWA [150 mg/m² (Melthylisopropylbenzenes)  Estonia - Occupational Exposure Limits  OEL TWA [150 mg/m² (Melthylisopropylbenzenes)  DEL TWA [150 mg/m² [150 mg/	KTV (OEL STEL)	300 mg/m³	
Norway - Occupational Exposure Limits  Grenseverdi (OEL TWA) [1] 140 mg/m³  Grenseverdi (OEL TWA) [2] 25 ppm  Kortidosverdi (OEL STEL) 175 mg/m³ (value calculated)  Kortidosverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)  Was - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  p-Cymene (99-87-6)  Denmark - Occupational Exposure Limits  OEL TWA [1] 135 mg/m³ (Methylisopropylbenzenes)  OEL TWA [2] 25 ppm (Methylisopropylbenzenes)  OEL STEL 270 mg/m³ (Methylisopropylbenzenes)  Estonia - Occupational Exposure Limits  OEL TWA 140 mg/m³  OEL TWA 140 mg/m³  OEL TWA 150 mg/m³  OEL STEL 190 mg/m³  Tarvi (OEL TWA) 140 mg/m³  IPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 190 mg/m³  TPRV (OEL STEL) 190 mg/m³  TPRV (OEL STEL) 190 mg/m³  New (OEL TWA) 140 mg/m³  New (OEL STEL) 140 mg/m³	KTV (OEL STEL) [ppm]	50 ppm	
Grenseverdi (OEL TWA) [1]	OEL chemical category	Sensitizer	
Grenseverdi (OEL TWA) [2]	Norway - Occupational Exposure Limits		
Kortidsverdi (OEL STEL) 176 mg/m³ (value calculated)  Kortidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)  USA - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  p-Cymene (99-87-6)  Demark - Occupational Exposure Limits  OEL TWA [1] 135 mg/m³ (Methylisopropylbenzenes)  OEL TWA [2] 25 ppm (Methylisopropylbenzenes)  OEL STEL 270 mg/m³ (Methylisopropylbenzenes)  OEL STEL 50 ppm (Methylisopropylbenzenes)  DEL STEL [ppm] 50 ppm (Methylisopropylbenzenes)  OEL TWA 0Ppm] 25 ppm  OEL TWA 140 mg/m³  OEL TWA 190 mg/m³  OEL STEL 190 mg/m³  OEL TWA) 140 mg/m³  OEL TWA) 190 mg/m³  Nev (OEL TWA) [ppm] 25 ppm  Sweden · Occupational Exposure Limits  NGV (OEL STEL) [ppm] 35 ppm  Sweden · Occupational Exposure Limits  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 190 mg/m³	Grenseverdi (OEL TWA) [1]	140 mg/m³	
Kortidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)  USA - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  p-Cymene (99-87-6)  Denmark - Occupational Exposure Limits  OEL TWA [1] 135 mg/m³ (Methylisopropylbenzenes)  OEL TWA [2] 25 ppm (Methylisopropylbenzenes)  OEL STEL 270 mg/m³ (Methylisopropylbenzenes)  OEL STEL 270 mg/m³ (Methylisopropylbenzenes)  OEL STEL 50 ppm (Methylisopropylbenzenes)  Estonia - Occupational Exposure Limits  OEL TWA 140 mg/m³  OEL TWA [ppm] 25 ppm  OEL STEL 190 mg/m³  Iatvia - Occupational Exposure Limits  IPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 190 mg/m³  TPRV (OEL STEL) 190 mg/m³  Sweden - Occupational Exposure Limits  NGV (OEL TWA) [ppm] 35 ppm  Sweden - Occupational Exposure Limits  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 190 mg/m³  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 190 mg/m³  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 190 mg/m³  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 190 mg/m³	Grenseverdi (OEL TWA) [2]	25 ppm	
USA - ACGIH - Occupational Exposure Limits  ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)  ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  p-Cymene (99-87-6)  Denmark - Occupational Exposure Limits  OEL TWA [1] 135 mg/m³ (Methylisopropylbenzenes)  OEL TWA [2] 25 ppm (Methylisopropylbenzenes)  OEL STEL 270 mg/m³ (Methylisopropylbenzenes)  OEL STEL [ppm] 50 ppm (Methylisopropylbenzenes)  Estonia - Occupational Exposure Limits  OEL TWA [ppm] 25 ppm  OEL STEL 140 mg/m³  OEL TWA [ppm] 25 ppm  OEL STEL [ppm] 35 ppm  Latvia - Occupational Exposure Limits  OEL STEL [ppm] 35 ppm  Latvia - Occupational Exposure Limits  OEL TWA [140 mg/m³ (Cymene (2, 3, 4-isomers mixture))  Lithuania - Occupational Exposure Limits  IPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 190 mg/m³  IPRV (OEL STEL) 190 mg/m³  TPRV (OEL STEL) 190 mg/m³  Seeden - Occupational Exposure Limits  NGV (OEL TWA) [ppm] 35 ppm  Sweden - Occupational Exposure Limits  NGV (OEL TWA) [ppm] 26 ppm  KTV (OEL STEL) 190 mg/m³  NGV (OEL TWA) [ppm] 26 ppm  KTV (OEL STEL) 190 mg/m³  NGV (OEL TWA) [ppm] 26 ppm  KTV (OEL STEL) 190 mg/m³	Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
ACGIH OEL TWA [ppm] 20 pm (Turpentine and selected Monoterpenes)  ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer  p-Cymene (99-87-6)  Denmark - Occupational Exposure Limits  OEL TWA [1] 135 mg/m³ (Methylisopropylbenzenes)  OEL TWA [2] 25 ppm (Methylisopropylbenzenes)  OEL STEL 270 mg/m³ (Methylisopropylbenzenes)  OEL STEL 50 ppm 50 ppm (Methylisopropylbenzenes)  Estonia - Occupational Exposure Limits  OEL TWA 140 mg/m³  OEL TWA [ppm] 25 ppm  OEL STEL 190 mg/m³  OEL STEL 190 mg/m³  OEL STEL 190 mg/m³  OEL STEL 190 mg/m³  CEL TWA 10 mg/m³ (Cymene (2, 3, 4-isomers mixture))  Lithuania - Occupational Exposure Limits  IPRV (OEL TWA) 140 mg/m³  IPRV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) 190 mg/m³  TPRV (OEL STEL) 190 mg/m³  Sweden - Occupational Exposure Limits  NGV (OEL TWA) 140 mg/m³  Sweden - Occupational Exposure Limits  NGV (OEL TWA) 140 mg/m³  NGV (OEL TWA) [ppm] 25 ppm  TPRV (OEL STEL) [ppm] 35 ppm  Sweden - Occupational Exposure Limits  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 190 mg/m³  NGV (OEL TWA) [ppm] 25 ppm  KTV (OEL STEL) 190 mg/m³	Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)	
ACGIH chemical category  P-Cymene (99-87-6)  Denmark - Occupational Exposure Limits  OEL TWA [1]  OEL TWA [2]  OEL STEL  OEL STEL  OEL STEL  OEL TWA  I10	USA - ACGIH - Occupational Exposure Limits		
Denmark - Occupational Exposure Limits   135 mg/m³ (Methylisopropylbenzenes)	ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)	
Denmark - Occupational Exposure Limits	ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer	
OEL TWA [1]         135 mg/m³ (Methylisopropylbenzenes)           OEL TWA [2]         25 ppm (Methylisopropylbenzenes)           OEL STEL         270 mg/m³ (Methylisopropylbenzenes)           OEL STEL [ppm]         50 ppm (Methylisopropylbenzenes)           Estonia - Occupational Exposure Limits         140 mg/m³           OEL TWA [ppm]         25 ppm           OEL STEL         190 mg/m³           OEL STEL [ppm]         35 ppm           Latvia - Occupational Exposure Limits         10 mg/m³ (Cymene (2, 3, 4-isomers mixture))           Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)           IPRV (OEL TWA) [ppm]         25 ppm           TPRV (OEL STEL)         190 mg/m³           TPRV (OEL STEL) [ppm]         35 ppm           Sweden - Occupational Exposure Limits         NGV (OEL TWA)           NGV (OEL TWA) [ppm]         25 ppm           Sweden - Occupational Exposure Limits         NGV (OEL TWA) [ppm]           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL TWA) [ppm]         25 ppm           KTV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³	p-Cymene (99-87-6)		
OEL TWA [2]       25 ppm (Methylisopropylbenzenes)         OEL STEL       270 mg/m³ (Methylisopropylbenzenes)         OEL STEL [ppm]       50 ppm (Methylisopropylbenzenes)         Estonia - Occupational Exposure Limits         OEL TWA       140 mg/m³         OEL TWA [ppm]       25 ppm         OEL STEL       190 mg/m³         OEL STEL [ppm]       35 ppm         Latvia - Occupational Exposure Limits         OEL TWA       10 mg/m³ (Cymene (2, 3, 4-isomers mixture))         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       140 mg/m³         IPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL)       190 mg/m³         Sweden - Occupational Exposure Limits       NGV (OEL TWA)         NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA)       190 mg/m³         NGV (OEL TWA)       190 mg/m³	Denmark - Occupational Exposure Limits		
OEL STEL       270 mg/m³ (Methylisopropylbenzenes)         OEL STEL [ppm]       50 ppm (Methylisopropylbenzenes)         Estonia - Occupational Exposure Limits         OEL TWA       140 mg/m³         OEL TWA [ppm]       25 ppm         OEL STEL       190 mg/m³         OEL STEL [ppm]       35 ppm         Latvia - Occupational Exposure Limits         OEL TWA       10 mg/m³ (Cymene (2, 3, 4-isomers mixture))         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       140 mg/m³         IPRV (OEL TWA) [ppm]       25 ppm         TPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL) [ppm]       35 ppm         Sweden - Occupational Exposure Limits       NGV (OEL TWA)         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL TWA) [ppm]       25 ppm         KTV (OEL TWA) [ppm]       25 ppm	OEL TWA [1]	135 mg/m³ (Methylisopropylbenzenes)	
OEL STEL [ppm]         50 ppm (Methylisopropylbenzenes)           Estonia - Occupational Exposure Limits           OEL TWA         140 mg/m³           OEL TWA [ppm]         25 ppm           OEL STEL         190 mg/m³           OEL STEL [ppm]         35 ppm           Latvia - Occupational Exposure Limits         0EL TWA           OEL TWA         10 mg/m³ (Cymene (2, 3, 4-isomers mixture))           Lithuania - Occupational Exposure Limits         140 mg/m³           IPRV (OEL TWA)         140 mg/m³           TPRV (OEL STEL)         190 mg/m³           TPRV (OEL STEL) [ppm]         35 ppm           Sweden - Occupational Exposure Limits         NGV (OEL TWA) [ppm]           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³	OEL TWA [2]	25 ppm (Methylisopropylbenzenes)	
Estonia - Occupational Exposure Limits	OEL STEL	270 mg/m³ (Methylisopropylbenzenes)	
OEL TWA         140 mg/m³           OEL TWA [ppm]         25 ppm           OEL STEL         190 mg/m³           OEL STEL [ppm]         35 ppm           Latvia - Occupational Exposure Limits         10 mg/m³ (Cymene (2, 3, 4-isomers mixture))           Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)           IPRV (OEL TWA)         140 mg/m³           IPRV (OEL STEL)         190 mg/m³           TPRV (OEL STEL) [ppm]         35 ppm           Sweden - Occupational Exposure Limits         NGV (OEL TWA)           NGV (OEL TWA)         140 mg/m³           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³	OEL STEL [ppm]	50 ppm (Methylisopropylbenzenes)	
OEL TWA [ppm]       25 ppm         OEL STEL       190 mg/m³         OEL STEL [ppm]       35 ppm         Latvia - Occupational Exposure Limits         OEL TWA       10 mg/m³ (Cymene (2, 3, 4-isomers mixture))         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       140 mg/m³         IPRV (OEL TWA) [ppm]       25 ppm         TPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL) [ppm]       35 ppm         Sweden - Occupational Exposure Limits         NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³         KTV (OEL STEL)       190 mg/m³	Estonia - Occupational Exposure Limits		
OEL STEL       190 mg/m³         OEL STEL [ppm]       35 ppm         Latvia - Occupational Exposure Limits       10 mg/m³ (Cymene (2, 3, 4-isomers mixture))         Lithuania - Occupational Exposure Limits       IPRV (OEL TWA)         IPRV (OEL TWA) [ppm]       25 ppm         TPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL) [ppm]       35 ppm         Sweden - Occupational Exposure Limits         NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³	OEL TWA	140 mg/m³	
OEL STEL [ppm]         35 ppm           Latvia - Occupational Exposure Limits         10 mg/m³ (Cymene (2, 3, 4-isomers mixture))           Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)           IPRV (OEL TWA) [ppm]         25 ppm           TPRV (OEL STEL)         190 mg/m³           TPRV (OEL STEL) [ppm]         35 ppm           Sweden - Occupational Exposure Limits           NGV (OEL TWA)         140 mg/m³           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³	OEL TWA [ppm]	25 ppm	
Latvia - Occupational Exposure Limits           OEL TWA         10 mg/m³ (Cymene (2, 3, 4-isomers mixture))           Lithuania - Occupational Exposure Limits           IPRV (OEL TWA)         140 mg/m³           IPRV (OEL TWA) [ppm]         25 ppm           TPRV (OEL STEL)         190 mg/m³           TPRV (OEL STEL) [ppm]         35 ppm           Sweden - Occupational Exposure Limits           NGV (OEL TWA)         140 mg/m³           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³	OEL STEL	190 mg/m³	
OEL TWA         10 mg/m³ (Cymene (2, 3, 4-isomers mixture))           Lithuania - Occupational Exposure Limits           IPRV (OEL TWA)         140 mg/m³           IPRV (OEL TWA) [ppm]         25 ppm           TPRV (OEL STEL)         190 mg/m³           TPRV (OEL STEL) [ppm]         35 ppm           Sweden - Occupational Exposure Limits           NGV (OEL TWA)         140 mg/m³           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³	OEL STEL [ppm]	35 ppm	
Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       140 mg/m³         IPRV (OEL TWA) [ppm]       25 ppm         TPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL) [ppm]       35 ppm         Sweden - Occupational Exposure Limits         NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³	Latvia - Occupational Exposure Limits		
IPRV (OEL TWA)       140 mg/m³         IPRV (OEL TWA) [ppm]       25 ppm         TPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL) [ppm]       35 ppm         Sweden - Occupational Exposure Limits         NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³	OEL TWA	10 mg/m³ (Cymene (2, 3, 4-isomers mixture))	
IPRV (OEL TWA) [ppm]       25 ppm         TPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL) [ppm]       35 ppm         Sweden - Occupational Exposure Limits         NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³	Lithuania - Occupational Exposure Limits		
TPRV (OEL STEL)       190 mg/m³         TPRV (OEL STEL) [ppm]       35 ppm         Sweden - Occupational Exposure Limits         NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³	IPRV (OEL TWA)	140 mg/m³	
TPRV (OEL STEL) [ppm]         35 ppm           Sweden - Occupational Exposure Limits           NGV (OEL TWA)         140 mg/m³           NGV (OEL TWA) [ppm]         25 ppm           KTV (OEL STEL)         190 mg/m³	IPRV (OEL TWA) [ppm]	25 ppm	
Sweden - Occupational Exposure Limits       NGV (OEL TWA)     140 mg/m³       NGV (OEL TWA) [ppm]     25 ppm       KTV (OEL STEL)     190 mg/m³	TPRV (OEL STEL)	190 mg/m³	
NGV (OEL TWA)       140 mg/m³         NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³	TPRV (OEL STEL) [ppm]	35 ppm	
NGV (OEL TWA) [ppm]       25 ppm         KTV (OEL STEL)       190 mg/m³	Sweden - Occupational Exposure Limits		
KTV (OEL STEL) 190 mg/m³	NGV (OEL TWA)	140 mg/m³	
	NGV (OEL TWA) [ppm]	25 ppm	
KTV (OEL STEL) [ppm] 35 ppm	KTV (OEL STEL)	190 mg/m³	
	KTV (OEL STEL) [ppm]	35 ppm	

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Ethyl acetate (141-78-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	734 mg/m³	
IOEL TWA [ppm]	200 ppm	
IOEL STEL	1468 mg/m³	
IOEL STEL [ppm]	400 ppm	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	734 mg/m³	
MAK (OEL TWA) [ppm]	200 ppm	
MAK (OEL STEL)	1468 mg/m³	
MAK (OEL STEL) [ppm]	400 ppm	
Belgium - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	734 mg/m³	
GVI (OEL TWA) [2]	200 ppm	
KGVI (OEL STEL)	1468 mg/m³	
KGVI (OEL STEL) [ppm]	400 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	700 mg/m³	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	540 mg/m³	
OEL TWA [2]	150 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	500 mg/m³	

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Ethyl acetate (141-78-6)		
OEL TWA [ppm]	150 ppm	
OEL STEL	1100 mg/m³	
OEL STEL [ppm]	300 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	730 mg/m³	
HTP (OEL TWA) [2]	200 ppm	
HTP (OEL STEL)	1470 mg/m³	
HTP (OEL STEL) [ppm]	400 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	734 mg/m³	
VME (OEL TWA) [ppm]	200 ppm	
VLE (OEL C/STEL)	1468 mg/m³ (restrictive limit)	
VLE (OEL C/STEL) [ppm]	400 ppm (restrictive limit)	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	730 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
AGW (OEL TWA) [2]	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Gibraltar - Occupational Exposure Limits		
OEL TWA	200 mg/m³	
OEL TWA [ppm]	734 ppm	
OEL STEL	400 mg/m³	
OEL STEL [ppm]	1468 ppm	
Greece - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	734 mg/m³	
CK (OEL STEL)	1468 mg/m³	
OEL chemical category	Sensitizer	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	734 mg/m³	
OEL TWA [2]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Italy - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	

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Ethyl acetate (141-78-6)		
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Latvia - Occupational Exposure Limits		
OEL TWA	200 mg/m³	
OEL TWA [ppm]	54 ppm	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	500 mg/m³	
IPRV (OEL TWA) [ppm]	150 ppm	
NRV (OEL C)	1100 mg/m³	
NRV (OEL C) [ppm]	300 ppm	
Luxembourg - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Malta - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	734 mg/m³	
TGG-8u (OEL TWA) [ppm]	200 ppm	
TGG-15min (OEL STEL)	1468 mg/m³	
TGG-15min (OEL STEL) [ppm]	400 ppm	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	734 mg/m³	
NDSCh (OEL STEL)	1468 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	734 mg/m³ (indicative limit value)	
OEL TWA [ppm]	200 ppm (indicative limit value)	
OEL STEL	1468 mg/m³ (indicative limit value)	
OEL STEL [ppm]	400 ppm (indicative limit value)	
Romania - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	

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Ethyl acetate (141-78-6)		
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA) [1]	734 mg/m³	
NPHV (OEL TWA) [2]	200 ppm	
NPHV (OEL C)	1100 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	734 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	734 mg/m³	
VLA-ED (OEL TWA) [2]	200 ppm	
VLA-EC (OEL STEL)	1468 mg/m³	
VLA-EC (OEL STEL) [ppm]	400 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	550 mg/m³	
NGV (OEL TWA) [ppm]	150 ppm	
KTV (OEL STEL)	1100 mg/m³	
KTV (OEL STEL) [ppm]	300 ppm	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	734 mg/m³	
WEL TWA (OEL TWA) [2]	200 ppm	
WEL STEL (OEL STEL)	1468 mg/m³	
WEL STEL (OEL STEL) [ppm]	400 ppm	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	734 mg/m³	
Grenseverdi (OEL TWA) [2]	200 ppm	
Korttidsverdi (OEL STEL)	1468 mg/m³ (value from the regulation)	
Korttidsverdi (OEL STEL) [ppm]	400 ppm (value from the regulation)	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	730 mg/m³	
MAK (OEL TWA) [2]	200 ppm	
KZGW (OEL STEL)	1460 mg/m³	
KZGW (OEL STEL) [ppm]	400 ppm	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	400 ppm	
Isobutyl acetate (110-19-0)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	241 mg/m³ (Butyl acetates)	

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Isobutyl acetate (110-19-0)		
MAK (OEL TWA) [ppm]	50 ppm (Butyl acetates)	
MAK (OEL STEL)	480 mg/m³ (Butyl acetate)	
MAK (OEL STEL) [ppm]	100 ppm (Butyl acetate)	
Belgium - Occupational Exposure Limits		
OEL TWA	238 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	712 mg/m³	
OEL STEL [ppm]	150 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA	241 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	723 mg/m³	
OEL STEL [ppm]	150 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	241 mg/m³	
GVI (OEL TWA) [2]	50 ppm	
KGVI (OEL STEL)	723 mg/m³	
KGVI (OEL STEL) [ppm]	150 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA	241 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	723 mg/m³	
OEL STEL [ppm]	150 ppm	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	241 mg/m³	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	241 mg/m³ (Butyl acetate, all isomers)	
OEL TWA [2]	50 ppm (Butyl acetate, all isomers)	
OEL STEL	723 mg/m³	
OEL STEL [ppm]	150 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	241 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	723 mg/m³	
OEL STEL [ppm]	150 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	240 mg/m³ (Butyl acetate)	
HTP (OEL TWA) [2]	50 ppm (Butyl acetate)	
HTP (OEL STEL)	725 mg/m³ (Butyl acetate)	

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France - Occupational Exposure Limits VME (OEL TWA)  241 mg/m³ (restrictive limit) VME (OEL TWA) [ppm]  50 ppm (restrictive limit) VLE (OEL CSTEL)  723 mg/m³ (restrictive limit) VLE (OEL CSTEL) [ppm]  150 ppm (restrictive limit) VLE (OEL CSTEL) [ppm]  60rmany - Occupational Exposure Limits (TRGS 900) AGW (OEL TWA) [1]  300 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) AGW (OEL TWA) [2]  62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)  60 ppm 60	Isobutyl acetate (110-19-0)			
VME (OEL TWA)   Pom	HTP (OEL STEL) [ppm]	150 ppm (Butyl acetate)		
Marticle	France - Occupational Exposure Limits			
VLE (OEL C\text{STEL})   Fight   Task of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)   Bow was are observed   Bow values are observe	VME (OEL TWA)	241 mg/m³ (restrictive limit)		
V.L. (OEL C'STEL) (ppm]   150 ppm (restrictive limit)	VME (OEL TWA) [ppm]	50 ppm (restrictive limit)		
Germany - Occupational Exposure Limits (TRGS 900)  AGW (OEL TWA) [1] 300 mg/m² (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)  AGW (OEL TWA) [2] 52 pm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)  Greece - Occupational Exposure Limits  OEL TWA 241 mg/m³  OEL STEL 723 mg/m³  OEL STEL [ppm] 150 ppm  Hungary - Occupational Exposure Limits  AK (OEL TWA) 241 mg/m³  OEL OCCUPATIONAL 241 mg/m³  OEL OCCUPATIONAL 250 ppm  OEL STEL 723 mg/m³ (calculated)  OEL TWA [1] 241 mg/m³  OEL TWA [2] 50 ppm  OEL STEL [ppm] 150 ppm (calculated)  OEL TWA [241 mg/m³  OEL TWA [251 ppm] 150 ppm (calculated)  OEL TWA [262 ppm] 150 ppm (calculated)  OEL TWA [272 mg/m³  OEL STEL [ppm] 150 ppm (calculated)	VLE (OEL C/STEL)	723 mg/m³ (restrictive limit)		
AGW (OEL TWA) [1] 300 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)  AGW (OEL TWA) [2] 62 pm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)  Greece - Occupational Exposure Limits  OEL TWA 241 mg/m³  OEL TWA [2] 50 ppm  OEL STEL [ppm] 50 ppm  CHUNGARY - Occupational Exposure Limits  AK (OEL TWA) 241 mg/m³  OEL STEL [pm] 150 ppm  Hungary - Occupational Exposure Limits  AK (OEL TWA) 241 mg/m³  OEL CHIWA) 241 mg/m³  OEL CHIWA [1] 241 mg/m³  OEL TWA [2] 50 ppm  OEL TWA [2] 50 ppm  OEL STEL [ppm] 150 ppm (calculated)  Latiy - Occupational Exposure Limits  OEL TWA 241 mg/m³  OEL TWA [241 mg/m³  OEL STEL [ppm] 50 ppm  OEL STEL [ppm] 50 ppm  Lativia - Occupational Exposure Limits  OEL TWA 241 mg/m³  OEL STEL [ppm] 50 ppm  Lativia - Occupational Exposure Limits  OEL TWA 241 mg/m³  OEL STEL [ppm] 50 ppm  Lativia - Occupational Exposure Limits  OEL TWA 241 mg/m³  OEL STEL [ppm] 50 ppm  Lativia - Occupational Exposure Limits  OEL TWA [ppm] 50 ppm  Lativia - Occupational Exposure Limits  OEL TWA [ppm] 50 ppm  Lativia - Occupational Exposure Limits  OEL TWA [ppm] 50 ppm  Lithuania - Occupational Exposure Limits  IPRV (OEL TWA) [ppm] 50 ppm  TPRV (OEL TWA) [ppm] 50 ppm  TPRV (OEL STEL) 723 mg/m³  TPRV (OEL STEL) [ppm] 150 ppm	VLE (OEL C/STEL) [ppm]	150 ppm (restrictive limit)		
BGW values are observed	Germany - Occupational Exposure Limits (TRGS 90	00)		
values are observed)           Greece - Occupational Exposure Limits           OEL TWA         241 mg/m²           OEL TWA [ppm]         50 ppm           OEL STEL [ppm]         150 ppm           OEL STEL [ppm]         150 ppm           Hungary - Occupational Exposure Limits         AK (OEL TWA)           OK (OEL STEL)         723 mg/m²           OEL chemical category         Sensitizer           Ireland - Occupational Exposure Limits         OEL TWA [1]           OEL TWA [2]         50 ppm           OEL STEL [ppm]         150 ppm (calculated)           OEL STEL [ppm]         150 ppm (calculated)           OEL STEL [ppm]         241 mg/m²           OEL TWA         241 mg/m²           OEL TWA [ppm]         50 ppm           OEL STEL [ppm]         150 ppm           OEL STEL [ppm]         150 ppm           OEL STEL [ppm]         241 mg/m²           OEL STEL [ppm]         50 ppm           Utativa - Occupational Exposure Limits         OEL TWA [241 mg/m²           OEL TWA [ppm]         50 ppm           Utativa - Occupational Exposure Limits         OEL TWA [241 mg/m²           OEL TWA [25]         723 mg/m²           OEL TWA [26]         723 mg/m²	AGW (OEL TWA) [1]			
OEL TWA         241 mg/m³           OEL TWA [ppm]         50 ppm           OEL STEL         723 mg/m²           OEL STEL [ppm]         150 ppm           Hungary - Occupational Exposure Limits           AK (OEL TWA)         241 mg/m³           CK (OEL STEL)         723 mg/m³           OEL chemical category         Sensitizer           Ireland - Occupational Exposure Limits           OEL TWA [1]         241 mg/m³           OEL TWA [2]         50 ppm           OEL STEL         723 mg/m³ (calculated)           Italy - Occupational Exposure Limits         150 ppm (calculated)           Italy - Occupational Exposure Limits         241 mg/m³           OEL TWA [ppm]         50 ppm           OEL STEL [ppm]         150 ppm           OEL STEL [ppm]         150 ppm           OEL STEL [ppm]         150 ppm           OEL STEL [ppm]         50 ppm           OEL TWA [opm]         50 ppm           CEL TWA [ppm]         50 ppm           Lithuania - Occupational Exposure Limits         Very Collect TWA) [ppm]           IPRV (OEL TWA) [ppm]         50 ppm           TPRV (OEL TWA) [ppm]         50 ppm           TPRV (OEL STEL) [ppm]         150 ppm <tr< td=""><td>AGW (OEL TWA) [2]</td><td></td></tr<>	AGW (OEL TWA) [2]			
OEL TWA [ppm]         50 ppm           OEL STEL         723 mg/m³           OEL STEL [ppm]         150 ppm           Hungary - Occupational Exposure Limits           AK (OEL TWA)         241 mg/m³           CK (OEL STEL)         723 mg/m³           OEL chemical category         Sensitizer           Ireland - Occupational Exposure Limits           OEL TWA [1]         241 mg/m³           OEL TWA [2]         50 ppm           OEL STEL [ppm]         150 ppm (calculated)           Italy - Occupational Exposure Limits         241 mg/m³           OEL TWA [2]         50 ppm           OEL TWA [2]         50 ppm           OEL TWA [2]         50 ppm (calculated)           Italy - Occupational Exposure Limits         241 mg/m³           OEL TWA [2]         50 ppm           OEL TWA [2]         50 ppm           OEL STEL [2]         723 mg/m³           OEL TWA [2]         50 ppm           Latvia - Occupational Exposure Limits           OEL TWA [2]         241 mg/m³           OEL TWA [2]         50 ppm           Lithuania - Occupational Exposure Limits           IPRV (OEL TWA) [2]         50 ppm           TPRV (OEL STEL) [2]         723 mg/m³	Greece - Occupational Exposure Limits			
OEL STEL, [ppm]       150 ppm         Hungary - Occupational Exposure Limits         AK (OEL TWA)       241 mg/m³         CK (OEL STEL)       723 mg/m³         OEL chemical category       Sensitizer         Ireland - Occupational Exposure Limits         OEL TWA [1]       241 mg/m³         OEL TWA [2]       50 ppm         OEL STEL, [ppm]       150 ppm (calculated)         Italy - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         OEL STEL [ppm]       150 ppm         OEL STEL [ppm]       150 ppm         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits       150 ppm         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits       150 ppm         Lithuania - Occupational Exposure Limits       150 ppm         TPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits       150 ppm	OEL TWA	241 mg/m³		
Section   Sect	OEL TWA [ppm]	50 ppm		
Hungary - Occupational Exposure Limits	OEL STEL	723 mg/m³		
AK (OEL TWA)  CK (OEL STEL)  723 mg/m³  OEL chemical category  Sensitizer  Ireland - Occupational Exposure Limits  OEL TWA [1]  OEL TWA [2]  OEL STEL  723 mg/m³ (calculated)  OEL STEL  723 mg/m³ (calculated)  OEL STEL [ppm]  Italy - Occupational Exposure Limits  OEL TWA [2]  OEL TWA [2]  OEL TWA [2]  OEL STEL [ppm]  Italy - Occupational Exposure Limits  OEL TWA [2]  OEL STEL [2]  OEL TWA [2]  OEL	OEL STEL [ppm]	150 ppm		
Test	Hungary - Occupational Exposure Limits			
OEL chemical category         Sensitizer           Ireland - Occupational Exposure Limits         241 mg/m³           OEL TWA [1]         241 mg/m³           OEL TWA [2]         50 ppm           OEL STEL         723 mg/m³ (calculated)           OEL STEL [ppm]         150 ppm (calculated)           Italy - Occupational Exposure Limits         241 mg/m³           OEL TWA         241 mg/m³           OEL STEL         723 mg/m³           OEL STEL [ppm]         150 ppm           Latvia - Occupational Exposure Limits           OEL TWA         241 mg/m³           OEL TWA [ppm]         50 ppm           Lithuania - Occupational Exposure Limits         IPRV (OEL TWA) [ppm]           IPRV (OEL TWA) [ppm]         50 ppm           TPRV (OEL TWA) [ppm]         50 ppm           TPRV (OEL STEL) [ppm]         150 ppm           Luxembourg - Occupational Exposure Limits         150 ppm	AK (OEL TWA)	241 mg/m³		
Treland - Occupational Exposure Limits	CK (OEL STEL)	723 mg/m³		
OEL TWA [1]       241 mg/m³         OEL TWA [2]       50 ppm         OEL STEL       723 mg/m³ (calculated)         OEL STEL [ppm]       150 ppm (calculated)         Italy - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         OEL STEL       723 mg/m³         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	OEL chemical category	Sensitizer		
OEL TWA [2]       50 ppm         OEL STEL       723 mg/m³ (calculated)         OEL STEL [ppm]       150 ppm (calculated)         Italy - Occupational Exposure Limits         OEL TWA         OEL TWA [ppm]       50 ppm         OEL STEL       723 mg/m³         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits       150 ppm	Ireland - Occupational Exposure Limits			
OEL STEL       723 mg/m³ (calculated)         OEL STEL [ppm]       150 ppm (calculated)         Italy - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         OEL STEL       723 mg/m³         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	OEL TWA [1]	241 mg/m³		
OEL STEL [ppm]       150 ppm (calculated)         Italy - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         OEL STEL       723 mg/m³         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	OEL TWA [2]	50 ppm		
Staly - Occupational Exposure Limits	OEL STEL	723 mg/m³ (calculated)		
OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         OEL STEL       723 mg/m³         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	OEL STEL [ppm]	150 ppm (calculated)		
OEL TWA [ppm]       50 ppm         OEL STEL       723 mg/m³         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	Italy - Occupational Exposure Limits			
OEL STEL       723 mg/m³         OEL STEL [ppm]       150 ppm         Latvia - Occupational Exposure Limits         OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	OEL TWA	241 mg/m³		
OEL STEL [ppm]         150 ppm           Latvia - Occupational Exposure Limits         241 mg/m³           OEL TWA [ppm]         50 ppm           Lithuania - Occupational Exposure Limits         1PRV (OEL TWA)           IPRV (OEL TWA) [ppm]         50 ppm           TPRV (OEL STEL)         723 mg/m³           TPRV (OEL STEL) [ppm]         150 ppm           Luxembourg - Occupational Exposure Limits	OEL TWA [ppm]	50 ppm		
Latvia - Occupational Exposure Limits  OEL TWA [ppm] 50 ppm  Lithuania - Occupational Exposure Limits  IPRV (OEL TWA) 241 mg/m³  IPRV (OEL TWA) [ppm] 50 ppm  TPRV (OEL STEL) 723 mg/m³  TPRV (OEL STEL) [ppm] 150 ppm  Luxembourg - Occupational Exposure Limits	OEL STEL	723 mg/m³		
OEL TWA       241 mg/m³         OEL TWA [ppm]       50 ppm         Lithuania - Occupational Exposure Limits         IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	OEL STEL [ppm]	150 ppm		
OEL TWA [ppm] 50 ppm  Lithuania - Occupational Exposure Limits  IPRV (OEL TWA) 241 mg/m³  IPRV (OEL TWA) [ppm] 50 ppm  TPRV (OEL STEL) 723 mg/m³  TPRV (OEL STEL) [ppm] 150 ppm  Luxembourg - Occupational Exposure Limits	Latvia - Occupational Exposure Limits			
Lithuania - Occupational Exposure Limits  IPRV (OEL TWA) 241 mg/m³  IPRV (OEL TWA) [ppm] 50 ppm  TPRV (OEL STEL) 723 mg/m³  TPRV (OEL STEL) [ppm] 150 ppm  Luxembourg - Occupational Exposure Limits	OEL TWA	241 mg/m³		
IPRV (OEL TWA)       241 mg/m³         IPRV (OEL TWA) [ppm]       50 ppm         TPRV (OEL STEL)       723 mg/m³         TPRV (OEL STEL) [ppm]       150 ppm         Luxembourg - Occupational Exposure Limits	OEL TWA [ppm]	50 ppm		
IPRV (OEL TWA) [ppm] 50 ppm  TPRV (OEL STEL) 723 mg/m³  TPRV (OEL STEL) [ppm] 150 ppm  Luxembourg - Occupational Exposure Limits	Lithuania - Occupational Exposure Limits			
TPRV (OEL STEL) 723 mg/m³  TPRV (OEL STEL) [ppm] 150 ppm  Luxembourg - Occupational Exposure Limits	IPRV (OEL TWA)	241 mg/m³		
TPRV (OEL STEL) [ppm] 150 ppm  Luxembourg - Occupational Exposure Limits	IPRV (OEL TWA) [ppm]	50 ppm		
Luxembourg - Occupational Exposure Limits	TPRV (OEL STEL)	723 mg/m³		
	TPRV (OEL STEL) [ppm]	150 ppm		
OEL TWA 241 mg/m³	Luxembourg - Occupational Exposure Limits			
	OEL TWA	241 mg/m³		

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Isobutyl acetate (110-19-0)			
OEL TWA [ppm]	50 ppm		
OEL STEL	723 mg/m³		
OEL STEL [ppm]	150 ppm		
Malta - Occupational Exposure Limits			
OEL TWA	241 mg/m³		
OEL TWA [ppm]	50 ppm		
OEL STEL	723 mg/m³		
OEL STEL [ppm]	150 ppm		
Netherlands - Occupational Exposure Limits			
TGG-8u (OEL TWA)	241 mg/m³		
TGG-8u (OEL TWA) [ppm]	50 ppm		
TGG-15min (OEL STEL)	723 mg/m³		
TGG-15min (OEL STEL) [ppm]	150 ppm		
Poland - Occupational Exposure Limits			
NDS (OEL TWA)	240 mg/m³		
NDSCh (OEL STEL)	720 mg/m³		
Portugal - Occupational Exposure Limits			
OEL TWA	241 mg/m³ (indicative limit value)		
OEL TWA [ppm]	50 ppm (indicative limit value)		
OEL STEL	723 mg/m³ (indicative limit value)		
OEL STEL [ppm]	150 ppm (indicative limit value)		
Romania - Occupational Exposure Limits			
OEL TWA	241 mg/m³		
OEL TWA [ppm]	50 ppm		
OEL STEL	723 mg/m³		
OEL STEL [ppm]	150 ppm		
Slovakia - Occupational Exposure Limits			
NPHV (OEL TWA) [1]	480 mg/m³		
NPHV (OEL TWA) [2]	100 ppm		
NPHV (OEL C)	700 mg/m³		
Slovenia - Occupational Exposure Limits	Slovenia - Occupational Exposure Limits		
OEL TWA	241 mg/m³		
OEL TWA [ppm]	50 ppm		
OEL STEL	723 mg/m³		
OEL STEL [ppm]	150 ppm		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	241 mg/m³		
VLA-ED (OEL TWA) [2]	50 ppm		
VLA-EC (OEL STEL)	723 mg/m³		

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Isobutyl acetate (110-19-0)		
VLA-EC (OEL STEL) [ppm]	150 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	241 mg/m³ (Butyl acetates)	
NGV (OEL TWA) [ppm]	50 ppm (Butyl acetates)	
KTV (OEL STEL)	723 mg/m³ (Butyl acetates)	
KTV (OEL STEL) [ppm]	150 ppm (Butyl acetates)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	724 mg/m³	
WEL TWA (OEL TWA) [2]	150 ppm	
WEL STEL (OEL STEL)	903 mg/m³	
WEL STEL (OEL STEL) [ppm]	187 ppm	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	241 mg/m³	
Grenseverdi (OEL TWA) [2]	50 ppm	
Korttidsverdi (OEL STEL)	723 mg/m³ (value from the regulation)	
Korttidsverdi (OEL STEL) [ppm]	150 ppm (value from the regulation)	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	240 mg/m³	
MAK (OEL TWA) [2]	50 ppm	
KZGW (OEL STEL)	720 mg/m³	
KZGW (OEL STEL) [ppm]	150 ppm	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)	
ACGIH OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)	

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

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#### 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 : No data available : No data available рΗ Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available : No data available Freezing point : No data available Boiling point : > 93 °C

Flash point : > 93 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : No data available

Relative vapour density at 20°C : No data available

Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties **Explosive limits** : No data available

#### 9.2. Other information

No additional information available

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#### **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 toxicological effects

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

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)	
Eugenol (97-53-0)		
LD50 oral rat	1930 mg/kg (Source: NZ_CCID)	
LD50 oral	2500 mg/kg bodyweight	
Cinnamic aldehyde (104-55-2)		
LD50 oral rat	2220 mg/kg (Source: NLM_CIP)	
LD50 oral	2200 mg/kg bodyweight	
LD50 dermal rabbit	1260 mg/kg (Source: EPA_HPV)	
LD50 dermal	1100 mg/kg bodyweight	
Hexamethylindanopyran (1222-05-5)		
LD50 oral rat	> 3250 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 3250 mg/kg (Source: CHEMVIEW)	
d-Limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)	

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.alphaPinene (80-56-8)		
LD50 oral rat	3700 mg/kg (Source: NLM_CIP)	
LD50 oral 500 mg/kg bodyweight		
LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)	
.betaPinene (127-91-3)		
LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
p-Cymene (99-87-6)		
LD50 oral rat	4750 mg/kg (Source: NLM_CIP)	
LD50 oral	4750 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
LC50 Inhalation - Rat	> 9.7 mg/l (Exposure time: 5 h Source: EU_CLH)	
LC50 Inhalation - Rat (Vapours)	9.7 mg/l/4h	
Ethyl acetate (141-78-6)		
LD50 oral rat	5620 mg/kg (Source: NLM_CIP)	
LD50 dermal rabbit	> 18000 mg/kg (Source: JAPAN_GHS)	
LC50 Inhalation - Rat [ppm]	4000 ppm/4h	
Isobutyl acetate (110-19-0)		
LD50 oral rat	15400 mg/kg (Source: JAPAN_GHS)	
LD50 dermal rabbit > 17400 mg/kg (Source: NLM_CIP)		
Skin corrosion/irritation Additional information	Not classified     Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Not classified	
Additional information : Based on available data, the classification criteria are not met		
Respiratory or skin sensitisation : Not classified		
Additional information	Based on available data, the classification criteria are not met	
Germ cell mutagenicity Additional information	<ul> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> </ul>	
Carcinogenicity	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Eugenol (97-53-0)		
IARC group	3 - Not classifiable	
d-Limonene (5989-27-5)		
IARC group	3 - Not classifiable	
Reproductive toxicity	Not classified	
dditional information : Based on available data, the classification criteria are not met		
STOT-single exposure Additional information	: Not classified : Based on available data, the classification criteria are not met	
Ethyl acetate (141-78-6)	. Dasca on available data, the diasonication enteria are not met	
STOT-single exposure	May cause drowsiness or dizziness.	
Isobutyl acetate (110-19-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
	Not classified	
Additional information	Based on available data, the classification criteria are not met	

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Aspiration hazard : Not classified

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

Benzyl benzoate (120-51-4)

Viscosity, kinematic 7.456 mm<sup>2</sup>/s

Potential adverse human health effects and : Based on available data, the classification criteria are not met

symptoms

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

(acute)

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

(chronic)

Benzyl benzoate (120-51-4)		
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
NOEC (chronic)	0.168 mg/l	
Eugenol (97-53-0)		
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
Hexamethylindanopyran (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	
d-Limonene (5989-27-5)		
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)	
.alphaPinene (80-56-8)		
LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Ethyl acetate (141-78-6)		
LC50 - Fish [1]	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	
LC50 - Fish [2]	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)	
EC50 - Crustacea [1]	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
Isobutyl acetate (110-19-0)		
LC50 - Fish [1]	17 mg/l (Exposure time: 96 h - Species: Oryzias latipes Source: ECHA)	

### 12.2. Persistence and degradability

EGG NOG CC-13087 10%	
Persistence and degradability	Not established.

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Benzyl benzoate (120-51-4)			
Persistence and degradability	May cause long-term adverse effects in the environment.		
12.3. Bioaccumulative potential			
EGG NOG CC-13087 10%			
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.		
Eugenol (97-53-0)			
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)		
Cinnamic aldehyde (104-55-2)			
Partition coefficient n-octanol/water (Log Pow)	2.1065 (at 25 °C)		
Hexamethylindanopyran (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)		
beta-Caryophyllene (87-44-5)			
Partition coefficient n-octanol/water (Log Pow)	6.23 (at 25 °C (at pH 7)		
d-Limonene (5989-27-5)			
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)		
.alphaPinene (80-56-8)			
Partition coefficient n-octanol/water (Log Pow)	4.1		
p-Cymene (99-87-6)			
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 20 °C (at pH 7)		
Partition coefficient n-octanol/water (Log Kow)	0		
Ethyl acetate (141-78-6)	Ethyl acetate (141-78-6)		
BCF - Fish [1]	(30 dimensionless)		
Partition coefficient n-octanol/water (Log Pow)	0.73 (at 20 °C (at pH 7)		
Isobutyl acetate (110-19-0)			
BCF - Fish [1]	(no significant bioconcentration)		
Partition coefficient n-octanol/water (Log Pow)	2.3 (at 25 °C (at pH 7)		
12.4 Mobility in soil			

### 12.4. Mobility in soil

No additional information available

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

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

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#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations Ecology - waste materials HP Code

- : Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : HP3 "Flammable:"
- flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
- flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
- flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
- flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
- water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
- other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

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
I4.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.3. Transport hazard o	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.5. Environmental haz	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
lo supplementary information	n 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

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#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

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

EU restriction list (RI	EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description	
3(a)	d-Limonene; .alpha Pinene; .betaPinene; p- Cymene; Ethyl acetate; Isobutyl 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)	Benzyl benzoate; Eugenol; Cinnamic aldehyde; d-Limonene; p-Cymene; Ethyl acetate; Isobutyl 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 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)	EGG NOG CC-13087 10%; Benzyl benzoate; Cinnamic aldehyde; Hexamethylindanopyran; d-Limonene; p-Cymene	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.	d-Limonene ; .alpha Pinene ; .betaPinene ; p- Cymene ; Ethyl acetate ; Isobutyl 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.	

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

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

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

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

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

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

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

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

#### Ozone Regulation (1005/2009)

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

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

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

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

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

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#### 15.1.2. National regulations

#### **France**

Occupational diseases	
Code	Description
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) Storage class (LGK, TRGS 510)

Joint storage table

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

: LGK 12 - Non-combustible liquids.

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
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 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

Joint storage with restrictions permitted for

Joint storage permitted for

: LGK 1, LGK 6.2, LGK 7.

LGK 4.1A, LGK 4.3, LGK 5.1C.
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

List of sensitizing substances (TRGS 907)

Hazardous Incident Ordinance (12. BImSchV)

: Contains sensitizing substances according TRGS 907.

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

..... (....

Netherlands

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

environment

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

 $SZW\text{-}lijst\ van\ reprotoxische\ stoffen-Borstvoeding}$ 

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

ABM category

SZW-lijst van reprotoxische stoffen – Ontwikkeling

None of the components are listed

None of the components are listedNone of the components are listed

: None of the components are listed

: None of the components are listed

#### **Denmark**

Classification remarks

Danish National Regulations

Emergency management guidelines for the storage of flammable liquids must be followed
 Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

## Switzerland

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

### 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.

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Full text of H- and EUF	I-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 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 Eugenol, Cinnamic aldehyde, beta-Caryophyllene. May produce an allergic reaction.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 1	Flammable liquids, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H224	Extremely flammable liquid and vapour.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H336	May cause drowsiness or dizziness.	
H361	Suspected of damaging fertility or the unborn child.	
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 SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

: ATP 12

The classification complies with

Safety Data Sheet (SDS), EU

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

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