

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11/15/2023 Revision date: 5/28/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : CASHMERE KUSH #EU41509F UFI : VRXP-D3AH-A00M-J8FW

Product code : EU41509F

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

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

1.2.1. Relevant identified uses

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

Industrial

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

FRENCH COLOR & FRAGRANCE International GmbH

Mittlerer Weg 35 DE 79424 Auggen

Germany

T 49-7631-931-8900

SDS@frenchcolor.com, www.frenchcolor.com

1.4. Emergency telephone number

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, H410

Category 1

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

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)





GHS07

GHS09

Signal word (CLP) : Warning

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

Cedramber; Linalyl acetate; Bergamot oil; Citrus medica limonum (Lemon) peel oil; (R)-p-mentha-1.8-diene; d-limonene; Geraniol; Nerol; beta-Caryophyllene; Eugenol; Cinnamic

aldehyde; Benzyl salicylate; Lime oil distilled

Hazard statements (CLP) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H410 - Very toxic to aquatic life with long lasting effects.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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

P273 - Avoid release to the environment.

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

protection.

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

Extra phrases : For professional users only.

2.3. Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	15.2 – 30.4	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Ethylene brassylate	CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314- 33	2.5 – 5.05	Aquatic Chronic 2, H411
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-	2.1382516 – 4.33728465	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Methyl ionone (mixture of isomers)	CAS-No.: 1335-46-2 EC-No.: 215-635-0	0.8 – 1.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Vanillin	CAS-No.: 121-33-5 EC-No.: 204-465-2 REACH-no: 01-2119516040- 60	0.6 – 1.25	Eye Irrit. 2, H319
Linalyl acetate	CAS-No.: 115-95-7 EC-No.: 204-116-4 REACH-no: 01-2119454789- 19	0.6032752 – 1.1254598	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008
			[CLP]
Sandela	CAS-No.: 66068-84-6 EC-No.: 266-100-3	0.5 – 0.95	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Cedramber	CAS-No.: 19870-74-7 EC-No.: 243-384-7	0.5 – 0.95	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1B, H317
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272- 42	0.5 – 0.9	Aquatic Chronic 3, H412
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7	0.32 – 0.725	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442- 31	0.3 – 0.55	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Geraniol	CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-	0.20003 – 0.52506	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237- 53	0.165 – 0.45	Asp. Tox. 1, H304 Skin Sens. 1B, H317
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone	CAS-No.: 81-14-1 EC-No.: 201-328-9 EC Index-No.: 609-069-00-7	0.2 – 0.4	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802- 33	0.075 – 0.3	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Amyl salicylate	CAS-No.: 2050-08-0 EC-No.: 218-080-2 REACH-no: 01-2119969444- 27	0.2 – 0.3	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
Lime oil distilled	CAS-No.: 8008-26-2 EC-No.: 290-010-3 REACH-no: 01-2120138646- 51	0.1 – 0.25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 1A, H360FD Asp. Tox. 1, H304 Aquatic Chronic 1, H410
(R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353-	0.102456 – 0.223719	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]
Bergamot oil	CAS-No.: 8007-75-8 EC-No.: 289-612-9	0.08 – 0.17	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Citrus medica limonum (Lemon) peel oil	CAS-No.: 8008-56-8 EC-No.: 284-515-8	0.05 – 0.10625	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 REACH-no: 01-2119935242- 45	0.015 – 0.075	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
.betaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 127-91-3 EC-No.: 204-872-5	0.015302 – 0.03851675	Flam. Liq. 3, H226
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	0.004 – 0.0225	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
.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	< 0.006	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	0.0000016 – 0.0000034	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 after ingestion

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). Suspected of causing cancer.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. 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. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash with plenty of water/ Get medical advice/attention. Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.

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center or a doctor if you feel unwell.

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison

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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.

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

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

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

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. 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

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing

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

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

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

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep

container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

. Sources of ignition. Direct sur

Storage temperature : 25 °C

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

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Benzyl acetate (140-11-4)	
Belgium - Occupational Exposure Limits	
OEL TWA	62 mg/m³
	10 ppm
Denmark - Occupational Exposure Limits	
OEL TWA	61 mg/m³
	10 ppm
OEL STEL	122 mg/m³
	20 ppm
Ireland - Occupational Exposure Limits	
OEL TWA	10 ppm
OEL STEL	30 ppm (calculated)
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m³

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Portugal - Occupational Exposure Limits 10 ppm OEL TWA 10 ppm OEL TWA A4 - Not Classifiable as a Human Carcinogen Romania - Occupational Exposure Limits 50 mg/m² OEL STEL 80 mg/m² 13 ppm 50 mg/m² Spain - Occupational Exposure Limits 70 ppm VLA-ED (OEL TWA) 62 mg/m² 40 ppm 10 ppm ACGIH - Occupational Exposure Limits 70 ppm ACGIH CHEL TWA 10 ppm ACGIH CHEMICAL CARCING Not Classifiable as a Human Carcinogen Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) EU - Indicative Occupational Exposure Limit (IOEL) 50 ppm IOEL TWA 190 ppm IOEL STEL 384 mg/m² IOEL STEL 384 mg/m² MAK (OEL TWA) 190 mg/m² MAK (OEL TWA) 190 mg/m² OEL chemical category Skin notation Belgium - Occupational Exposure Limits 77 mg/m² OEL TWA 70 ppm OEL chemical category Skin notation Buigaria - Occupational Exp	Benzyl acetate (140-11-4)		
OEL chemical category	Portugal - Occupational Exposure Limits		
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MAK (OEL STEL) 380 mg/m³ 100 ppm 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	MAK (OEL TWA)	190 mg/m³	
100 ppm		50 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	MAK (OEL STEL)	380 mg/m³	
Belgium - Occupational Exposure Limits OEL TWA 77 mg/m³ 20 ppm 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	
OEL TWA 77 mg/m³ 20 ppm 20 ppm OEL STEL 384 mg/m³ 100 ppm 100 ppm OEL chemical category Skin, Skin notation Bulgaria - Occupational Exposure Limits 192 mg/m³ OEL TWA 192 mg/m³ 50 ppm 384 mg/m³	OEL chemical category	Skin notation	
20 ppm	Belgium - Occupational Exposure Limits		
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	OEL TWA	77 mg/m³	
OEL chemical category Skin, Skin notation Bulgaria - Occupational Exposure Limits OEL TWA 192 mg/m³ 50 ppm OEL STEL 384 mg/m³		20 ppm	
OEL chemical category Skin, Skin notation Bulgaria - Occupational Exposure Limits OEL TWA 192 mg/m³ 50 ppm OEL STEL 384 mg/m³	OEL STEL	384 mg/m³	
Bulgaria - Occupational Exposure Limits OEL TWA 192 mg/m³ 50 ppm 50 ppm OEL STEL 384 mg/m³		100 ppm	
OEL TWA 192 mg/m³ 50 ppm OEL STEL 384 mg/m³	OEL chemical category	Skin, Skin notation	
50 ppm OEL STEL 384 mg/m³	Bulgaria - Occupational Exposure Limits		
OEL STEL 384 mg/m³	OEL TWA	192 mg/m³	
-		50 ppm	
100	OEL STEL	384 mg/m³	
100 ppm		100 ppm	

Safety Data Sheet

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

Safety Data Sheet

Toluene (108-88-3)	
Estonia - Occupational Exposure Limits	
OEL TWA	192 mg/m³
	50 ppm
OEL STEL	384 mg/m³
	100 ppm
OEL chemical category	Skin notation
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	81 mg/m³
	25 ppm
HTP (OEL STEL)	380 mg/m³
	100 ppm
OEL chemical category	Potential for cutaneous absorption
Finland - Biological limit values	
BLV	500 nmol/L Parameter: Toluene - Medium: blood - Sampling time: in the morning after a working day
France - Occupational Exposure Limits	
VME (OEL TWA)	76.8 mg/m³ (restrictive limit)
	20 ppm (restrictive limit)
VLE (OEL C/STEL)	384 mg/m³ (restrictive limit)
	100 ppm (restrictive limit)
OEL chemical category	Reproductive Toxin category 2, Risk of cutaneous absorption
France - Biological limit values	
BLV	20 μg/l Parameter: Toluene - Medium: blood - Sampling time: end of workweek (Semi-quantitative (ambiguous interpretation)) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
Germany - Occupational Exposure Limits (TRGS 9	00)
AGW (OEL TWA)	190 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation
Germany - Biological limit values (TRGS 903)	
Biological limit value	600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: immediately after exposure 75 µg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: end of shift
Gibraltar - Occupational Exposure Limits	

Safety Data Sheet

Toluene (108-88-3)	
	50 ppm
OEL STEL	384 mg/m³
	100 ppm
OEL chemical category	Skin notation
Greece - Occupational Exposure Limits	
OEL TWA	192 mg/m³
	50 ppm
OEL STEL	384 mg/m³
	100 ppm
OEL chemical category	skin - potential for cutaneous absorption
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	190 mg/m³
CK (OEL STEL)	384 mg/m³
OEL chemical category	Potential for cutaneous absorption
Ireland - Occupational Exposure Limits	
OEL TWA	192 mg/m³
	50 ppm
OEL STEL	384 mg/m³
	100 ppm
OEL chemical category	Potential for cutaneous absorption
Italy - Occupational Exposure Limits	
OEL TWA	192 mg/m³
	50 ppm
OEL chemical category	skin - potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
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

Safety Data Sheet

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

Safety Data Sheet

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

Safety Data Sheet

Toluene (108-88-3)	
	37.5 ppm (value calculated)
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	190 mg/m³
	50 ppm
KZGW (OEL STEL)	760 mg/m³
	200 ppm
OEL chemical category	Skin notation, Category 2 reproductive toxin
Switzerland - BAT	
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	
Slovenia - Occupational Exposure Limits OEL TWA	28 mg/m³

Safety Data Sheet

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
OEL STEL	112 mg/m³	
	20 ppm	
OEL chemical category	Potential for cutaneous absorption	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	168 mg/m³	
	30 ppm	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	140 mg/m³	
	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
	37.5 ppm (value calculated)	
OEL chemical category	Allergenic substance	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	40 mg/m³	
	7 ppm	
KZGW (OEL STEL)	80 mg/m³	
	14 ppm	
OEL chemical category	Sensitizer	
.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	
	<u> </u>	

Safety Data Sheet

Spain - Occupational Exposure Limits 113 mg/m² 20 ppm	.betaPinene (127-91-3)		
DEL chemical category Sensitizer Sweden - Occupational Exposure Limits NGV (OEL TWA) 150 mg/m² 25 pm KGV (OEL STEL) 300 mg/m² 50 ppm OEL chemical category Sensitizer OEL chemical category Sensitizer OEL chemical category Sensitizer OEL chemical category Sensitizer OEL STEL) 176 mg/m² (value calculated) 37.5 ppm Sensitizer OEL STEL) 176 mg/m² (value calculated) 37.5 ppm (value calculated) 37.5 ppm (value calculated) 37.5 ppm (value calculated) 37.5 ppm (value calculated) 38.4 - ACGIH - Occupational Exposure Limits OEL TWA 20 ppm (Turpentine and selected Monoterpenes) ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer Citral (5392-40-5) Belgium - Occupational Exposure Limits OEL TWA 32 mg/m² (vapor and aerosol) 5 ppm (vapor and aerosol) 6 ppm (vapor and aerosol) 7 ppm (vapor and aerosol) 8 ppm (vapor and aerosol) 9 pp	Spain - Occupational Exposure Limits		
OEL chemical category Sensitizer 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) 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, darmal sensitizer Citral (5392-40-5) Belglum - Occupational Exposure Limits OEL TWA 32 mg/m³ (vapor and aerosol) 5 ppm (vapor and aerosol) OEL chemical category Skin Treiand - Occupational Exposure Limits OEL TWA 5 ppm (calculated) Poland - Occupational Exposure Limits OEL TWA 5 ppm (calculated) Poland - Occupational Exposure Limits OEL TWA 5 ppm (calculated) Poland - Occupational Exposure Limits OEL TWA 5 ppm (calculated) Poland - Occupational Exposure Limits OEL TWA 5 ppm (calculated) Poland - Occupational Exposure Limits OEL TWA 5 ppm (calculated) Poland - Occupational Exposure Limits OEL TWA 5 ppm (inhalable fraction; vapor) OEL chemical category Sensitizer demail, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure Spain - Occupational Exposure Limits VIA-ED (OEL TWA) 5 ppm (inhalable fraction and vapor) OEL chemical category Sensitizer demail, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure	VLA-ED (OEL TWA)	113 mg/m³	
Sweden - Occupational Exposure Limits 150 mg/m² 25 ppm		20 ppm	
NGV (OEL TWA) 150 mg/m² 25 ppm KGV (OEL STEL) 300 mg/m² 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m² 25 ppm Kortidisverdi (OEL STEL) 175 mg/m² (value calculated) 37.5 ppm (value calculated) USA - ACGIH - Occupational Exposure Limits ACGIH - Occupational Exposure Limits ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer citral (5392-40-5) Belgium - Occupational Exposure Limits OEL TWA 22 mg/m² (vapor and aerosol) 5 ppm (vapor and aerosol) CEL 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/m² NDSCh (OEL STEL) 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; vapor) OEL chemical category Sensitizer, skin - potential for cutaneous absorption USA - ACGIH - Occupational Exposure Limits	OEL chemical category	Sensitizer	
KGV (OEL STEL) 300 mg/m² 50 ppm OEL chemical category Sensitzer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m² 25 ppm Korttidsverdi (OEL STEL) 175 mg/m² (value calculated) 37.5 ppm (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 citral (5392-40-5) Belgium - Occupational Exposure Limits OEL TWA 32 mg/m² (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/m² NDS (OEL TWA) 27 mg/m² Portugal - Occupational Exposure Limits OEL TWA 5 ppm (inhalable fraction; vapor) Sensitizer dermal, M - 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	Sweden - Occupational Exposure Limits		
KGV (OEL STEL) 300 mg/m³ 50 ppm OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m² 25 ppm Korttidsverdi (OEL STEL) 175 mg/m² (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 citral (5392-40-5) Belgium - Occupational Exposure Limits OEL TWA 22 mg/m² (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/m² NDS (OEL STEL) 54 mg/m² 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	NGV (OEL TWA)	150 mg/m³	
OEL chemical category Sensitizer Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m³ 25 ppm Kortidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) 37.5 ppm (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 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/m² NDSCh (OEL STEL) 54 mg/m² 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		25 ppm	
OEL chemical category Norway - Occupational Exposure Limits Grenseverdi (OEL TWA) 140 mg/m³ 25 ppm Kortidsverdi (OEL STEL) 175 mg/m³ (value calculated) 37.5 ppm (value calculated) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer 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/m² NDSCh (OEL STEL) 54 mg/m² 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) 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) Sensitizer, skin - potential for cutaneous absorption	KGV (OEL STEL)	300 mg/m³	
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 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 OEL TWA 5 ppm OEL STEL 15 ppm (calculated) Poland - Occupational Exposure Limits NDS (OEL STEL) 15 ppm (calculated) Poland - Occupational Exposure Limits NDS (OEL STEL) 54 mg/m³ NDSCh (OEL STEL) 55 ppm (inhalable fraction; vapor) 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		50 ppm	
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) Not Classifiable as a Human Carcinogen, dermal sensitizer 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 TWA 5 ppm OEL TWA 5 ppm OEL TWA 5 ppm (vapor and aerosol) Stin Ireland - Occupational Exposure Limits OEL TWA 5 ppm OEL TWA 5 ppm OEL STEL 15 ppm (calculated) Poland - Occupational Exposure Limits NDS (OEL TWA) 27 mg/m³ NDSCN (OEL STEL) 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	OEL chemical category	Sensitizer	
Z5 ppm	Norway - Occupational Exposure Limits		
Tr5 mg/m³ (value calculated) 37.5 ppm (value calculated) 37.	Grenseverdi (OEL TWA)	140 mg/m³	
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 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 DEL TWA 5 ppm 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		25 ppm	
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer citral (5392-40-5) Belgium - Occupational Exposure Limits OEL TWA 32 mg/m³ (vapor and aerosol) 5 ppm (vapor and aerosol) OEL chemical category Ireland - Occupational Exposure Limits OEL TWA 5 ppm OEL TWA OEL STEL 15 ppm (calculated) Poland - Occupational Exposure Limits NDS (OEL TWA) NDS (OEL TWA) ACGIH - 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 VI.A-ED (OEL TWA) 5 ppm (inhalable fraction and vapor) OEL chemical category Sensitizer, skin - potential for cutaneous absorption USA - ACGIH - Occupational Exposure Limits	Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
ACGIH OEL TWA ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer Citral (5392-40-5) Belgium - Occupational Exposure Limits OEL TWA 32 mg/m³ (vapor and aerosol) 5 ppm (vapor and aerosol) OEL chemical category Ireland - Occupational Exposure Limits OEL TWA 5 ppm OEL TWA 5 ppm OEL TWA 5 ppm (calculated) Poland - Occupational Exposure Limits NDS (OEL TWA) 27 mg/m³ NDS (OEL TWA) DEL STEL 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		37.5 ppm (value calculated)	
ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer 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	USA - ACGIH - Occupational Exposure Limits		
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	20 ppm (Turpentine and selected Monoterpenes)	
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 chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer	
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	citral (5392-40-5)		
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	Belgium - Occupational Exposure Limits		
OEL chemical category 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	OEL TWA	32 mg/m³ (vapor and aerosol)	
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		5 ppm (vapor and aerosol)	
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	OEL chemical category	Skin	
OEL STEL Poland - Occupational Exposure Limits NDS (OEL TWA) NDSCh (OEL STEL) Portugal - Occupational Exposure Limits OEL TWA S 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) S ppm (inhalable fraction and vapor) OEL chemical category Sensitizer, skin - potential for cutaneous absorption USA - ACGIH - Occupational Exposure Limits	Ireland - Occupational Exposure Limits		
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	OEL TWA	5 ppm	
NDS (OEL TWA) NDSCh (OEL STEL) 54 mg/m³ Portugal - Occupational Exposure Limits OEL TWA 5 ppm (inhalable fraction; vapor) OEL chemical category Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 5 ppm (inhalable fraction and vapor) 5 ppm (inhalable fraction and vapor) 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	OEL STEL	15 ppm (calculated)	
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	Poland - Occupational Exposure Limits		
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	NDS (OEL TWA)	27 mg/m³	
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	NDSCh (OEL STEL)	54 mg/m³	
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	Portugal - Occupational Exposure Limits		
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	OEL TWA	5 ppm (inhalable fraction; vapor)	
VLA-ED (OEL TWA) 5 ppm (inhalable fraction and vapor) OEL chemical category Sensitizer, skin - potential for cutaneous absorption USA - ACGIH - Occupational Exposure Limits	OEL chemical category		
OEL chemical category Sensitizer, skin - potential for cutaneous absorption USA - ACGIH - Occupational Exposure Limits	Spain - Occupational Exposure Limits		
USA - ACGIH - Occupational Exposure Limits	VLA-ED (OEL TWA)	5 ppm (inhalable fraction and vapor)	
	OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
ACGIH OEL TWA 5 ppm (inhalable fraction and vapor)	USA - ACGIH - Occupational Exposure Limits		
	ACGIH OEL TWA	5 ppm (inhalable fraction and vapor)	

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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	
.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)	

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.alphaPinene (80-56-8)	
ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer	
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1)	
Austria - Occupational Exposure Limits	
OEL chemical category	Group B Carcinogen

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

Appropriate engineering controls:

Ensure good ventilation of the work station.

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. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

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

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : light yellow. amber. Conforms to standard.

Odour : characteristic. characteristic.

Odour threshold Not available Melting point Not applicable Freezing point Not available Boiling point Not available Flammability : Not applicable Lower explosion limit : Not available : Not available Upper explosion limit · > 93 °C Flash point : Not available Auto-ignition temperature Decomposition temperature Not available рΗ Not available Viscosity, kinematic : Not available Solubility : Not available

Vapour pressure : 0.00069694 mm Hg (calculated value)

: Not available

Vapour pressure at 50° C : Not available Density : Not available Relative density : ≈ 1.05 Relative vapour density at 20° C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 2.34872915 % (calculated value)(CARB VOC) (%w/w)

SECTION 10: Stability and reactivity

Partition coefficient n-octanol/water (Log Kow)

10.1. Reactivity

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

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.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (dermal) :	Not classified Not classified Not classified	
Ethylene brassylate (105-95-3)		
LD50 oral rat	> 5000 mg/kg (Source: ECHA)	
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA)	
Linalool (78-70-6)		
LD50 oral	2790 mg/kg	
Methyl ionone (mixture of isomers) (1335-46-2	2)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
LD50 dermal	2900 mg/kg bodyweight	
Vanillin (121-33-5)		
LD50 dermal rabbit	> 5010 mg/kg (Source: OECD_SIDS)	
LD50 dermal	2600 mg/kg bodyweight	
Sandela (66068-84-6)		
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)	
LC50 Inhalation - Rat	> 5.27 mg/l/4h	
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)	
Benzyl acetate (140-11-4)		
LD50 oral rat	2490 mg/kg (Source: JAPAN_GHS)	
LD50 oral	2490 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: JAPAN_GHS)	
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	
Bergamot oil (8007-75-8)		
LD50 oral rat	11520 mg/kg (Source: NLM_CIP)	
Citrus medica limonum (Lemon) peel oil (8008-56-8)		
LD50 oral rat	2840 mg/kg (Source: NLM_CIP)	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)	

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)			
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)		
.betaPinene (127-91-3)	.betaPinene (127-91-3)		
LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)		
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)		
Geraniol (106-24-1)			
LD50 oral rat	3600 mg/kg (Source: NLM_CIP)		
LD50 oral	3600 mg/kg bodyweight		
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)		
Nerol (106-25-2)			
LD50 oral rat	4500 mg/kg (Source: NLM_CIP)		
LD50 oral	4500 mg/kg bodyweight		
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)		
citral (5392-40-5)			
LD50 oral rat	4960 mg/kg (Source: NLM_CIP)		
LD50 dermal rabbit	2250 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	2220 mg/kg		
LD50 dermal rabbit	1260 mg/kg (Source: EPA_HPV)		
.alphaPinene (80-56-8)			
LD50 oral rat	3700 mg/kg (Source: NLM_CIP)		
LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)		
Benzyl salicylate (118-58-1)			
LD50 oral rat	2227 mg/kg (Source: NLM_CIP)		
LD50 oral	2200 mg/kg bodyweight		
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)		
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1)			
LD50 oral rat	10 g/kg		
LD50 dermal rabbit	> 10 g/kg (Source: NLM_HSDB)		
LC50 Inhalation - Rat	> 2.99 mg/l/4h		
Amyl salicylate (2050-08-0)			
LD50 oral rat	4100 mg/kg (Source: NZ_CCID)		
LD50 oral	2000 mg/kg bodyweight		

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Amyl salicylate (2050-08-0)		
LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)		
Lime oil distilled (8008-26-2)		
LD50 oral rat	5600 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation :	Not classified	
Respiratory or skin sensitisation :	May cause an allergic skin reaction.	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Benzyl acetate (140-11-4)		
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	
Eugenol (97-53-0)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
Toluene (108-88-3)		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified	
Toluene (108-88-3)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard :	Not classified	
Toluene (108-88-3)		
Hydrocarbon	Yes	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)	
Hydrocarbon	Yes	
.betaPinene (127-91-3)		
Hydrocarbon	Yes	
.alphaPinene (80-56-8)		
Hydrocarbon	Yes	

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

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SECTION 12: Ecological information

			ity

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

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

(acute)

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

(chronic)			
Linalool (78-70-6)			
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)		
Methyl ionone (mixture of isomers) (1335-46-	Methyl ionone (mixture of isomers) (1335-46-2)		
LC50 - Fish [1]	2.3 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)		
Vanillin (121-33-5)			
LC50 - Fish [1]	53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)		
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)		
NOEC (acute)	10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])		
Linalyl acetate (115-95-7)			
LC50 - Fish [1]	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)		
Toluene (108-88-3)			
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)		
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)		
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])		
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)		
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)		
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)		
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)		
Geraniol (106-24-1)			
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)		
Nerol (106-25-2)			
LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] 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)		
Eugenol (97-53-0)			
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)		

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.alphaPinene (80-56-8)		
50 - 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)	
Benzyl salicylate (118-58-1)		
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)	
12.2. Persistence and degradability		
CASHMERE KUSH #EU41509F		
Persistence and degradability	Not established.	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethy	vI-2-naphthalenyl)ethanone (54464-57-2)	
Persistence and degradability	Rapidly degradable	
Ethylene brassylate (105-95-3)		
Persistence and degradability	Rapidly degradable	
Linalool (78-70-6)		
Persistence and degradability	Rapidly degradable	
Methyl ionone (mixture of isomers) (1335-46-2	2)	
Persistence and degradability	Rapidly degradable	
Vanillin (121-33-5)		
Persistence and degradability	Rapidly degradable	
Sandela (66068-84-6)		
Persistence and degradability	Rapidly degradable	
Cedramber (19870-74-7)		
Persistence and degradability	Rapidly degradable	
Linalyl acetate (115-95-7)		
Persistence and degradability	Rapidly degradable	
Benzyl acetate (140-11-4)		
Persistence and degradability	Rapidly degradable	
Toluene (108-88-3)		
Persistence and degradability	Rapidly degradable	
Bergamot oil (8007-75-8)		
Persistence and degradability	Rapidly degradable	
Citrus medica limonum (Lemon) peel oil (800	8-56-8)	
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	

Safety Data Sheet

Persistence and degradability Rapidly degradable Nerol (196-25-2) Persistence and degradability Rapidly degradable Citral (5392-40-5) Persistence and degradability Rapidly degradable beta-Caryophyllone (87-44-5) Persistence and degradability Rapidly degradable Eugenol (97-53-0) Persistence and degradability Rapidly degradable Eugenol (97-53-0) Persistence and degradability Rapidly degradable Cinnamic address (104-55-2) Persistence and degradability Rapidly degradable alphaPinene (80-56-8) Persistence and degradability Rapidly degradable Benzyl salicylate (118-58-1) Persistence and degradability Rapidly degradable Benzyl salicylate (118-58-1) Persistence and degradability Rapidly degradable Benzyl salicylate (105-0-80-8) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence and degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (8008-26-2) Persistence on degradability Rapidly degradable Lime oli distilled (80	Geraniol (106-24-1)		
Persistence and degradability Rapidly degradable beta-Caryophyllene (87-44-5) Persistence and degradability Rapidly degradable Eugenol (97-83-0) Persistence and degradability Rapidly degradable Cinnamic aldehyde (104-55-2) Persistence and degradability Rapidly degradable Cinnamic aldehyde (104-55-2) Persistence and degradability Rapidly degradable alphaPinene (80-56-8) Persistence and degradability Rapidly degradable Bonzyl salicylate (118-58-1) Persistence and degradability Rapidly degradable musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-44-1) Persistence and degradability Rapidly degradable Amyl salicylate (2050-08-0) Persistence and degradability Rapidly degradable Lime oil distilied (8008-26-2) Persistence and degradability Rapidly degradable CASHMERE KUSH #EU41509F Bioaccumulative potential CASHMERE KUSH #EU41509F Bioaccumulative potential Not established. Ethylono brassylate (105-95-3) Partition coefficient n-octanol/water (Log Pow) Al (at 25 °C (at pH 6.4-7) Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (140-11-4) Benzyl acetate (140-11-4)	Persistence and degradability	Rapidly degradable	
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Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential CASHMERE KUSH #EU41509F Bioaccumulative potential Not established. Ethylene brassylate (105-95-3) Partition coefficient n-octanol/water (Log Pow) 4.3 (at 25 °C (at pH 6.4-7) Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential CASHMERE KUSH #EU41509F Bioaccumulative potential Not established. Ethylene brassylate (105-95-3) Partition coefficient n-octanol/water (Log Pow) 4.3 (at 25 °C (at pH 6.4-7) Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Lime oil distilled (8008-26-2)		
CASHMERE KUSH #EU41509F Bioaccumulative potential Not established. Ethylene brassylate (105-95-3) Partition coefficient n-octanol/water (Log Pow) 4.3 (at 25 °C (at pH 6.4-7) Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Persistence and degradability	Rapidly degradable	
Bioaccumulative potential Ethylene brassylate (105-95-3) Partition coefficient n-octanol/water (Log Pow) Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	12.3. Bioaccumulative potential		
Ethylene brassylate (105-95-3) Partition coefficient n-octanol/water (Log Pow) Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	CASHMERE KUSH #EU41509F		
Partition coefficient n-octanol/water (Log Pow) 4.3 (at 25 °C (at pH 6.4-7) Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Bioaccumulative potential	Not established.	
Methyl ionone (mixture of isomers) (1335-46-2) Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Ethylene brassylate (105-95-3)		
Partition coefficient n-octanol/water (Log Pow) (>4.5 - <5 - at 23 °C (at pH 6.2) Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) 1.23 (at 22 °C) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Partition coefficient n-octanol/water (Log Pow)	4.3 (at 25 °C (at pH 6.4-7)	
Vanillin (121-33-5) Partition coefficient n-octanol/water (Log Pow) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Methyl ionone (mixture of isomers) (1335-46-2	2)	
Partition coefficient n-octanol/water (Log Pow) Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Partition coefficient n-octanol/water (Log Pow)	(>4.5 - <5 - at 23 °C (at pH 6.2)	
Linalyl acetate (115-95-7) Partition coefficient n-octanol/water (Log Pow) Benzyl acetate (140-11-4) 3.9 (at 25 °C)	Vanillin (121-33-5)		
Partition coefficient n-octanol/water (Log Pow) 3.9 (at 25 °C) Benzyl acetate (140-11-4)	Partition coefficient n-octanol/water (Log Pow)	1.23 (at 22 °C)	
Benzyl acetate (140-11-4)	Linalyl acetate (115-95-7)		
	Partition coefficient n-octanol/water (Log Pow)	3.9 (at 25 °C)	
Partition coefficient n-octanol/water (Log Pow) 1.96 (at 25 °C (at pH 7)	Benzyl acetate (140-11-4)		
	Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)	

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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)		
Geraniol (106-24-1)		
Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)	
Nerol (106-25-2)		
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)	
citral (5392-40-5)		
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)	
beta-Caryophyllene (87-44-5)		
Partition coefficient n-octanol/water (Log Pow)	6.23 (at 25 °C (at pH 7)	
Eugenol (97-53-0)		
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)	
Cinnamic aldehyde (104-55-2)		
Partition coefficient n-octanol/water (Log Pow)	2.1065 (at 25 °C)	
.alphaPinene (80-56-8)		
Partition coefficient n-octanol/water (Log Pow)	4.1	
Benzyl salicylate (118-58-1)		
Partition coefficient n-octanol/water (Log Pow)	4	
musk ketone; 3,5-dinitro-2,6-dimethyl-4-tert-butylacetophenone; 4'-tert-butyl-2', 6'-dimethyl-3',5'-dinitroacetophenone (81-14-1)		
Partition coefficient n-octanol/water (Log Pow)	4.24 (at 25 °C)	
Amyl salicylate (2050-08-0)		
BCF - Fish [1]	(1170 dimensionless (whole body w.w.)	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 30 °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.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

Ecological information

HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations.
- : Avoid release to the environment.
- : HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

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 number						
UN 3082	UN 3082 UN 3082		UN 3082	UN 3082		
14.2. UN proper shipping name						
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)	Environmentally hazardous substance, liquid, n.o.s. (ISO E SUPER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER)		
Transport document descr	iption					
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ISO E SUPER), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9,		
14.3. Transport hazard	14.3. Transport hazard class(es)					
9	9	9	9	9		
**************************************	**************************************	**************************************	**************************************			
14.4. Packing group						
III	III	III	III	III		
14.5. Environmental hazards						
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Dangerous for the environment: Yes			
No supplementary information	on available					

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

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

Limited quantities (ADR) : 5I

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Excepted quantities (ADR) · F1

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

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

(ADR)

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

and handling (ADR)

Hazard identification number (Kemler No.) 90

Orange plates

90 3082

Tunnel restriction code (ADR)

EAC code •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

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

EmS-No. (Spillage) Stowage category (IMDG) : A

Air transport

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

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

ERG code (IATA) · 9I

Inland waterway transport

Classification code (ADN) : M6

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

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

Rail transport

Classification code (RID) : M6

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

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

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

Special packing provisions (RID) : PP1 Mixed packing provisions (RID) : MP19

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Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions

: TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12

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

and handling (RID)

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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 (REA	ACH Annex XVII)	
Reference code	Applicable on	Entry title or description
3(a)	Toluene; Bergamot oil; Citrus medica limonum (Lemon) peel oil; (R)-p- mentha-1,8-diene; d- limonene; .betaPinene; .alphaPinene; Lime oil distilled	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	CASHMERE KUSH #EU41509F; 1- (1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; Linalool; Methyl ionone (mixture of isomers); Sandela; Cedramber; Linalyl acetate; Toluene; Bergamot oil; Citrus medica limonum (Lemon) peel oil; (R)-p-mentha- 1,8-diene; d-limonene; Geraniol; Nerol; citral; Eugenol; Cinnamic aldehyde; Benzyl salicylate; musk ketone; 3,5-dinitro-2,6-dimethyl-4- tert-butylacetophenone; 4'-tert-butyl-2', 6'- dimethyl-3',5'- dinitroacetophenone; Amyl salicylate; Lime oil distilled	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

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EU restriction list	EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description		
3(c)	CASHMERE KUSH #EU41509F; 1- (1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; Ethylene brassylate; Methyl ionone (mixture of isomers); Sandela; Cedramber; Benzyl acetate; Bergamot oil; Citrus medica limonum (Lemon) peel oil; (R)-p- mentha-1,8-diene; d- limonene; Cinnamic aldehyde; Benzyl salicylate; musk ketone; 3,5-dinitro-2,6-dimethyl-4- tert-butylacetophenone; 4'-tert-butyl-2', 6'- dimethyl-3',5'- dinitroacetophenone; Amyl salicylate; Lime oil distilled	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.	Toluene; Bergamot oil; Citrus medica limonum (Lemon) peel oil; (R)-p- mentha-1,8-diene; d- limonene; .betaPinene; .alphaPinene; Lime oil distilled	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.		
48.	Toluene	Toluene		

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

Dual-Use Regulation (428/2009)

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

VOC Directive (2004/42)

VOC content : 2.34872915 % (calculated value)(CARB VOC) (%w/w)

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)

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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

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG).

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

List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.

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

Netherlands

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

environment

SZW-lijst van kankerverwekkende stoffen : Sandela,Bergamot oil,Lemon oil are listed

SZW-lijst van mutagene stoffen : Sandela,Bergamot oil,Lemon oil are listed

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

SZW-lijst van reprotoxische stoffen – : 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 : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:		
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	

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Full text of H- and EUH	Full text of H- and EUH-statements:			
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2			
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3			
Asp. Tox. 1	Aspiration hazard, Category 1			
Carc. 2	Carcinogenicity, Category 2			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Flam. Liq. 2	Flammable liquids, Category 2			
Flam. Liq. 3	Flammable liquids, Category 3			
H225	Highly flammable liquid and vapour.			
H226	Flammable liquid and vapour.			
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.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H336	May cause drowsiness or dizziness.			
H351	Suspected of causing cancer.			
H360FD	May damage fertility. May damage the unborn child.			
H361	Suspected of damaging fertility or the unborn child.			
H361d	Suspected of damaging the unborn child.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting effects.			
Repr. 1A	Reproductive toxicity, Category 1A			
Repr. 2	Reproductive toxicity, Category 2			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
Skin Sens. 1	Skin sensitisation, Category 1			
Skin Sens. 1A	Skin sensitisation, category 1A			
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.