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

1.1. Product identifier

Product form	
Product name	
Product code	
Type of product	
Product group	

: Mixture : AMBER DAHLIA CC-16367 10% in DPG : CC-16367_10%

: Professional use, Industrial use

For professional use only

- : Perfumes, Fragrances
- : Trade product

: Industrial

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

1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Candle Craft Weiherwiese 10 65510 Idstein - Germany T 49-6126-9363 -0 info@candlecraft.de - www.candlecraft.de

1.4. Emergency telephone number

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 sensitization, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard	H412
Category 3	

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

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/20	08 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	Warning
Contains	Iso E Super; Vertenex; Orange oil ; Aldehyde C-16; Allyl cyclohexylpropionate; Triplal (Vertocitral); Timberol; Geranyl acetate
Hazard statements (CLP) :	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP)	 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. 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. P321 - Specific treatment (see supplemental first aid instruction on this label).
Extra phrases	: Restricted to professional users.

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 is 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]
Iso E Super	CAS-No.: 54464-57-2 EC-No.: 259-174-3 REACH-no: 01-2119489989- 04	0.75 – 1.5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286- 24	0.5 – 1	Skin Sens. 1B, H317
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353- 35	0.4 - 0.8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
benzyl alcohol substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH)	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630- 38	0.2 - 0.4	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Bacdanol	CAS-No.: 28219-61-6 EC-No.: 248-908-8 REACH-no: 01-2119529224- 45	0.15 – 0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 1, H410
Aldehyde C-16	CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770- 28	0.1 – 0.2	Skin Sens. 1B, H317 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Allyl cyclohexylpropionate	CAS-No.: 2705-87-5 EC-No.: 220-292-5	0.1 – 0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.05 – 0.10125	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Timberol	CAS-No.: 70788-30-6 EC-No.: 274-892-7	0.05 – 0.1	Skin Sens. 1B, H317
Geranyl acetate	CAS-No.: 105-87-3 EC-No.: 203-341-5 REACH-no: 01-2119973480- 35	0.05 – 0.1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
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	0.03 – 0.05	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
.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	≤ 0.0075	Flam. Liq. 3, H226
Dipropylene glycol monomethyl ether substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2	≤ 0.0062	Not classified
.alphaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 80-56-8 EC-No.: 201-291-9	≤ 0.0005	Flam. Liq. 3, H226

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation 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. 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. : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison First-aid measures after ingestion center/doctor/physician if you feel unwell. 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 : May cause an allergic skin reaction.

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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 Unsuitable extinguishing media	Sand. Water spray. Dry powder. Foam. Carbon dioxide.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 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/vapors/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		
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 Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	Ensure good ventilation of the work station. 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 vapor. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.	
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.	

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7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Store in a well-ventilated place. Keep cool.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
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 alcohol (100-51-6)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m ³	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	40 mg/m ³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	45 mg/m³	
HTP (OEL TWA) [2]	10 ppm	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	22 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Chemical category	skin notation	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m ³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m ³	
OEL chemical category	skin notation	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	240 mg/m ³	
Slovenia - Occupational Exposure Limits		
OEL TWA	22 mg/m ³	
OEL TWA	5 ppm	
OEL STEL	44 mg/m ³	
OEL STEL	10 ppm	
OEL chemical category	Potential for cutaneous absorption	

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benzyl alcohol (100-51-6)		
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	22 mg/m ³ (aerosol, vapour)	
MAK (OEL TWA) [2]	5 ppm (aerosol, vapour)	
OEL chemical category	skin notation	
citral (5392-40-5)		
Belgium - Occupational Exposure Limits		
OEL TWA	32 mg/m³ (vapor and aerosol)	
OEL TWA	5 ppm (vapor and aerosol)	
OEL chemical category	Skin	
Ireland - Occupational Exposure Limits		
OEL TWA [2]	5 ppm	
OEL STEL	15 ppm (calculated)	
Poland - Occupational Exposure Limits		
NDS (OEL TWA) 27 mg/m ³		
NDSCh (OEL STEL)	54 mg/m ³	
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) [2]	5 ppm (inhalable fraction and vapor)	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)	
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer	
Dipropylene glycol monomethyl ether (34590-	94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	308 mg/m³	
IOEL TWA [ppm]	50 ppm	
Remark	Possibility of significant uptake through the skin	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	307 mg/m ³ (mixed isomers)	
MAK (OEL TWA) [ppm]	50 ppm (mixed isomers)	
MAK (OEL STEL)	614 mg/m³ (isomers mixtures)	
MAK (OEL STEL) [ppm]	100 ppm (isomers mixtures)	
OEL chemical category	skin notation	
Belgium - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	

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Dipropylene glycol monomethyl ether (34590-94-8)		
OEL TWA	50 ppm	
OEL chemical category	Skin, skin notation	
Bulgaria - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	308 mg/m ³	
GVI (OEL TWA) [2]	50 ppm	
OEL chemical category	skin notation	
Cyprus - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
OEL chemical category	Skin-potential for cutaneous absorption	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	270 mg/m³	
OEL chemical category	Potential for cutaneous absorption	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	309 mg/m ³	
OEL TWA [2]	50 ppm	
OEL STEL	618 mg/m³	
OEL STEL	100 ppm	
OEL chemical category	Potential for cutaneous absorption	
Estonia - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
OEL chemical category	skin notation	
Finland - Occupational Exposure Limits	·	
HTP (OEL TWA) [1]	310 mg/m ³	
HTP (OEL TWA) [2]	50 ppm	
OEL chemical category	Potential for cutaneous absorption	
France - Occupational Exposure Limits		
VME (OEL TWA)	308 mg/m ³ (restrictive limit)	
VME (OEL TWA) [ppm]	50 ppm (restrictive limit)	
OEL chemical category	Risk of cutaneous absorption	
Germany - Occupational Exposure Limits (TRGS 900)		
AGW (OEL TWA) [1]	310 mg/m³ (isomer mixture)	
AGW (OEL TWA) [2]	50 ppm (isomer mixture)	
Gibraltar - Occupational Exposure Limits		
OEL TWA 308 mg/m ³		

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Dipropylene glycol monomethyl ether (34590-94-8)		
OEL TWA 50 ppm		
OEL chemical category	skin notation	
Greece - Occupational Exposure Limits		
OEL TWA 600 mg/m ³		
OEL TWA	100 ppm	
OEL STEL	900 mg/m ³	
OEL STEL	150 ppm	
OEL chemical category	skin - potential for cutaneous absorption	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	308 mg/m ³	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	308 mg/m ³ ((2-Methoxymethylethoxy)propanol)	
OEL TWA [2]	50 ppm ((2-Methoxymethylethoxy)propanol)	
OEL STEL	924 mg/m ³ (calculated (2-(2-Methoxypropoxy)-1-propanol)	
OEL STEL	150 ppm (calculated (2-(2-Methoxypropoxy)-1-propanol)	
OEL chemical category Potential for cutaneous absorption		
Italy - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
OEL chemical category	skin - potential for cutaneous absorption	
Latvia - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
OEL chemical category	skin - potential for cutaneous exposure	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	300 mg/m ³ (2-(2-Methoxypropoxy)-propanol)	
IPRV (OEL TWA) [ppm]	50 ppm (2-(2-Methoxypropoxy)-propanol)	
TPRV (OEL STEL)	450 mg/m ³ (2-(2-Methoxypropoxy)-propanol)	
TPRV (OEL STEL) [ppm]	75 ppm (2-(2-Methoxypropoxy)-propanol)	
OEL chemical category	skin notation	
Luxembourg - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
OEL chemical category	Possibility of significant uptake through the skin	
Malta - Occupational Exposure Limits		
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
OEL chemical category	Possibility of significant uptake through the skin	

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Dipropylene glycol monomethyl ether (34590-94-8)		
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	300 mg/m ³	
TGG-8u (OEL TWA) [ppm]	48.7 ppm	
Poland - Occupational Exposure Limits	1	
NDS (OEL TWA)	240 mg/m ³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol and 2-(2-Methoxy-1-methylethoxy)propan-1-ol)	
NDSCh (OEL STEL)	480 mg/m ³ (mixture of isomers: 1-(2-Methoxy-1-methylethoxy)propan-2-ol, 1-(2-Methoxy-2-methylethoxy)propan-2-ol, 2-(2-Methoxy-1-methylethoxy)propan-1-ol)	
Portugal - Occupational Exposure Limits		
OEL TWA 308 mg/m ³ (indicative limit value)		
OEL TWA	50 ppm (indicative limit value)	
OEL STEL	150 ppm	
OEL chemical category	skin - potential for cutaneous exposure indicative limit value	
Romania - Occupational Exposure Limits	·	
OEL TWA	308 mg/m ³	
OEL TWA	50 ppm	
OEL chemical category	skin notation	
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA) [1]	308 mg/m ³	
NPHV (OEL TWA) [2]	50 ppm	
OEL chemical category	Potential for cutaneous absorption	
Slovenia - Occupational Exposure Limits		
EL TWA 308 mg/m ³		
OEL TWA	50 ppm	
OEL STEL	308 mg/m ³	
OEL STEL	50 ppm	
OEL chemical category	Potential for cutaneous absorption	
Spain - Occupational Exposure Limits	1	
VLA-ED (OEL TWA) [1]	308 mg/m³ (indicative limit value)	
VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)	
OEL chemical category	skin - potential for cutaneous absorption	
Sweden - Occupational Exposure Limits	1	
NGV (OEL TWA)	300 mg/m ³	
NGV (OEL TWA) [ppm]	50 ppm	
KTV (OEL STEL)	450 mg/m³	
KTV (OEL STEL) [ppm]	75 ppm	
OEL chemical category	skin notation	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	308 mg/m³	
WEL TWA (OEL TWA) [2]	50 ppm	

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Dipropylene glycol monomethyl ether (34590	-94-8)	
WEL STEL (OEL STEL)	924 mg/m ³ (calculated)	
WEL STEL (OEL STEL) [ppm]	150 ppm (calculated)	
WEL chemical category Potential for cutaneous absorption		
Norway - Occupational Exposure Limits	·	
Grenseverdi (OEL TWA) [1] 300 mg/m ³		
Grenseverdi (OEL TWA) [2]	50 ppm	
Korttidsverdi (OEL STEL)	375 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	75 ppm (value calculated)	
OEL chemical category	skin notation	
Switzerland - Occupational Exposure Limits	·	
MAK (OEL TWA) [1]	300 mg/m³ (aerosol, vapour)	
MAK (OEL TWA) [2]	50 ppm (aerosol, vapour)	
KZGW (OEL STEL)	300 mg/m³ (aerosol, vapour)	
KZGW (OEL STEL) [ppm]	50 ppm (aerosol, vapour)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 ppm (Dipropylene glycol methyl ether)	
alphaPinene (80-56-8)		
Belgium - Occupational Exposure Limits		
OEL TWA	20 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA 150 mg/m ³ (Turpentine produced from Nordic conifers has an irritating effect monoterpenes, with the exception of 3-Carene, have a lesser effect)		
OEL TWA	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/m ³ (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	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/m ³	
IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL)	300 mg/m ³	
TPRV (OEL STEL) [ppm]	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) [1]	113 mg/m³	
VLA-ED (OEL TWA) [2]	20 ppm	
DEL chemical category Sensitizer		
L	1	

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

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.betaPinene (127-91-3)		
Sweden - Occupational Exposure Limits		
NGV (OEL TWA) 150 mg/m ³		
NGV (OEL TWA) [ppm]	25 ppm	
KTV (OEL STEL) 300 mg/m ³		
KTV (OEL STEL) [ppm] 50 ppm		
OEL chemical category Sensitizer		
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1] 140 mg/m ³		
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm] 37.5 ppm (value calculated)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm] 20 ppm (Turpentine and selected Monoterpenes)		
ACGIH chemical category Not Classifiable as a Human Carcinogen, dermal sensitizer		

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.

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ANDLECRAFT

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Color Odor Odor threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Upper explosion limit	 Liquid Standard. light yellow. amber. Conforms to standard. characteristic. Not available Not applicable Not available Not available Non flammable. Not available Not available Not available Not available
Flash point	: > 93 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapor pressure	: Not available
Vapor pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapor density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral): Not classifiedAcute toxicity (dermal): Not classifiedAcute toxicity (inhalation): Not classified		
Vertenex (32210-23-4)		
LD50 oral rat	5 g/kg (Source: NLM_CIP)	
LD50 oral	3370 mg/kg body weight	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
Orange oil (8008-57-9)		
LD50 oral rat	4400 mg/kg (Source: NZ_CCID)	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
benzyl alcohol (100-51-6)		
LD50 oral rat	1230 mg/kg (Source: NLM_CIP)	
LD50 oral	1620 mg/kg body weight	
LD50 dermal	2500 mg/kg body weight	
Aldehyde C-16 (77-83-8)		
LD50 oral rat	5470 mg/kg (Source: NLM_CIP)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)	
Allyl cyclohexylpropionate (2705-87-5)		
LD50 oral rat	585 mg/kg (Source: NLM_CIP)	
LD50 oral	380 mg/kg body weight	
LD50 dermal rabbit	1600 mg/kg (Source: ECHA_API)	
LD50 dermal	1600 mg/kg body weight	
Triplal (Vertocitral) (68039-49-6)		
LD50 oral	3900 mg/kg body weight	
Timberol (70788-30-6)		
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
Geranyl acetate (105-87-3)		
LD50 oral rat	6330 mg/kg (Source: NLM_CIP)	
citral (5392-40-5)		
LD50 oral rat	4960 mg/kg (Source: NLM_CIP)	

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Serious eye damage/irritation: Not classifiedAdditional information: Based on available data, the classification criteria are not metRespiratory or skin sensitization: May cause an allergic skin reaction.Additional information: Based on available data, the classification criteria are not metGerm cell mutagenicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metCarcinogenicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metCarcinogenicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metCarcinogenicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metReproductive toxicity: Not classifiedAdditional information: Based on available data, the classification criteria are not metSTOT-single exposure: Not classifiedAdditional information: Based on available data, the classification criteria are not metSTOT-repeated exposure: Not classifiedAdditional information: Based on available data, the classification criteria are not metSTOT-repeated exposure: Not classifiedAdditional information: Based on available data, the classification criteria are not metSTOT-repeated exposure: Not classifiedAdditional information: Based on available data, the classification criteria are not metStoT-repeated exposure: N	citral (5392-40-5)		
LD50 oral rat 5.35 g/kg (Source: NLM_HSDB) LD50 dermal rabbit 9500 mg/kg (Source: NLM_CIP) .alphaPinene (80-56-8)	LD50 dermal rabbit 2250 mg/kg (Source: NLM_CIP)		
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.alphaPinene (80-56-8) LD50 oral rat 3700 mg/kg (Source: NLM_CIP) LD50 oral 500 mg/kg body weight LD50 dermal rat > 5000 mg/kg (Source: CHEMVIEW) .betaPinene (127-91-3)	LD50 oral rat	5.35 g/kg (Source: NLM_HSDB)	
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STOT-repeated exposure : Not classified Additional information : Based on available data, the classification criteria are not met	o		
Additional information : Based on available data, the classification criteria are not met			
ASDITATION INTERNATION INTERNATION INTERNATIONALISE	spiration hazard : Not classified		
	Additional information		
Orange oil (8008-57-9)	Orange oil (8008-57-9)		
Hydrocarbon Yes	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		

 SECTION 12: Ecological information

 12.1. Toxicity

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

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

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

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Vertenex (32210-23-4)		
LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)	
benzyl alcohol (100-51-6)		
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)	
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)	
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)	
Aldehyde C-16 (77-83-8)		
LC50 - Fish [1]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)	
Allyl cyclohexylpropionate (2705-87-5)		
LC50 - Fish [1]	0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: ECHA)	
citral (5392-40-5)		
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)	
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)	
Dipropylene glycol monomethyl ether (34590-94-8)		
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 - Crustacea [1]	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
.alphaPinene (80-56-8)		
LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)	
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
12.2. Persistence and degradability		
AMBER DAHLIA CC-16367 10% in DPG		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
AMBER DAHLIA CC-16367 10% in DPG		
Bioaccumulative potential	Not established.	
Vertenex (32210-23-4)		
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)	
benzyl alcohol (100-51-6)		
Partition coefficient n-octanol/water (Log Pow)	1.05	
Aldehyde C-16 (77-83-8)		
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C (cis isomer)	
Allyl cyclohexylpropionate (2705-87-5)		

Partition coefficient n-octanol/water (Log Pow)

4.28 (at 20 °C (at pH 5.3)

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Timberol (70788-30-6)		
Partition coefficient n-octanol/water (Log Pow)	5.79 (at 25 °C (at pH 5.85)	
Geranyl acetate (105-87-3)		
Partition coefficient n-octanol/water (Log Pow)	4.04	
citral (5392-40-5)		
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)	
Dipropylene glycol monomethyl ether (34590-	94-8)	
Partition coefficient n-octanol/water (Log Pow)	0.35 (at 25 °C (at pH 7)	
.alphaPinene (80-56-8)		
Partition coefficient n-octanol/water (Log Pow)	4.1	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
Additional information :	Avoid release to the environment.	
SECTION 13: Disposal considerations		

13.1. Waste treatment methods	
Waste treatment methods Product/Packaging disposal recommendations Ecology - waste materials 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. Avoid release to the environment. HP3 - "Flammable:" flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

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



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ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number or ID n	umber	· ·			
Not applicable	Not applicable Not applicable Not		Not applicable	Not applicable	
14.2. UN proper shippin	g name				
Not applicable	Not applicable Not applicable Not applicable		Not applicable	Not applicable	
14.3. Transport hazard o	class(es)	·			
Not applicable	Not applicable	Not applicable Not applicable Not applicable		Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental haz	ards	·			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary informatio	n available	II			

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Orange oil ; .alpha Pinene ; .betaPinene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

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EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3(b)	AMBER DAHLIA CC- 16367 10% in DPG ; Iso E Super ; Vertenex ; Orange oil ; benzyl alcohol ; Bacdanol ; Aldehyde C-16 ; Allyl cyclohexylpropionate ; Triplal (Vertocitral) ; Timberol ; Geranyl acetate ; citral	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c)	AMBER DAHLIA CC- 16367 10% in DPG ; Iso E Super ; Orange oil ; Bacdanol ; Aldehyde C-16 ; Allyl cyclohexylpropionate ; Triplal (Vertocitral) ; Geranyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
40.	Orange oil ; .alpha Pinene ; .betaPinene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances.

REACH Candidate List (SVHC)

Contains no REACH candidate substance

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Germany

Water hazard class (WGK)	: WGK 2, significant hazardous to water (Classification according to AwSV, Annex 1).
Storage class (LGK, TRGS 510)	: LGK 12 - Non-combustible liquids.

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Joint storage table	EGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
	LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
	LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
	LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
	LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13
Joint storage not permitted for Joint storage with restrictions permitted for Joint storage permitted for	: LGK 2A, LGI	GK 4.3, LGK 5 K 2B, LGK 3, L	GK 4.1B, LGK 4		_GK 5.1B, LGK 5.2 0, LGK 11, LGK 12
Hazardous Incident Ordinance (12. BImSchV)		ct of the Hazar	dous Incident O	rdinance (12. B	ImSchV)
Netherlands					
ABM category	: A(2) - toxic for environment	: A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment			
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	: Orange oil ,T : None of the	riplal (Vertociti components ar components ar	e listed		
Denmark Classification remarks Danish National Regulations	: Young peopl	e below the ag	e of 18 years a	re not allowed to	nmable liquids must o use the product nust not be in direct
Switzerland Storage class (LK)	the product	C	men working wi		

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

Full text of H- and EUH-phrases:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3	
Asp. Tox. 1	Aspiration hazard Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids Category 3	

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Full text of H- and EUH-phrases:		
H226	Flammable liquid and vapor.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
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.	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization, Category 1	
Skin Sens. 1B	Skin sensitization, Category 1B	

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.