

Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

ADBL Black Mist

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** ADBL Black Mist
- Other means of identification:**
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Air freshener
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
JJPM Sp. z o.o.
ul. Terespolska 136a
05-074 Nowy Konik - mazowieckie - Polska
Phone: +48 534 251 365
msds@adbl.eu
www.adbl.eu
- 1.4 Emergency telephone number:** 112 – European emergency phone number

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Flam. Liq. 2: Flammable liquids, Category 2, H225

Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/protective clothing/eye protection/protective footwear.

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

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.

P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

Contains 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Benzyl salicylate, Cedryl methyl ketone, Citral, d-limonene, Geraniol, Hexyl cinnam-aldehyde, Linalool, Linalyl acetate, Pin-2(10)-ene.

Substances that contribute to the classification

1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

** Changes with regards to the previous version

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of chemical products

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 56539-66-3 EC: 260-252-4 Index: Non-applicable REACH: 01-2119976333-33-XXXX	3-methoxy-3-methylbutan-1-ol⁽¹⁾	Self-classified Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	4 - <7 %
CAS: 122-99-6 EC: 204-589-7 Index: 603-098-00-9 REACH: 01-2119488943-21-XXXX	2-phenoxyethanol⁽¹⁾	ATP CLP00 Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	1 - <2 %
CAS: 78-93-3 EC: 201-159-0 Index: 606-002-00-3 REACH: 01-2119457290-43-XXXX	Butanone⁽²⁾	ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	0,1 - <0,5 %
CAS: 115-95-7 EC: 204-116-4 Index: Non-applicable REACH: 01-2119454789-19-XXXX	Linalyl acetate⁽¹⁾	Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,1 - <0,5 %
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	Linalool⁽¹⁾	ATP ATP10 Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	0,1 - <0,5 %
CAS: 5989-27-5 EC: 227-813-5 Index: 601-096-00-2 REACH: 01-2119529223-47-XXXX	d-limonene⁽¹⁾	ATP ATP17 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	0,1 - <0,5 %
CAS: 32388-55-9 EC: 251-020-3 Index: Non-applicable REACH: 01-2119969651-28-XXXX	Cedryl methyl ketone⁽¹⁾	Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1B: H317 - Warning	0,1 - <0,5 %
CAS: 101-86-0 EC: 202-983-3 Index: Non-applicable REACH: Non-applicable	Hexyl cinnam-aldehyde⁽¹⁾	Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	0,1 - <0,5 %
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH: 01-2119488227-29-XXXX	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran⁽¹⁾	ATP ATP01 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	0,1 - <0,5 %
CAS: 80-54-6 EC: 201-289-8 Index: 605-041-00-3 REACH: 01-2119485965-18-XXXX	2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch⁽¹⁾	Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Repr. 1B: H360Fd; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	0,1 - <0,5 %
CAS: 5392-40-5 EC: 226-394-6 Index: 605-019-00-3 REACH: 01-2119462829-23-XXXX	Citral⁽¹⁾	ATP CLP00 Regulation 1272/2008 Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	0,1 - <0,5 %
CAS: 54464-57-2 EC: 259-174-3 Index: Non-applicable REACH: Non-applicable	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one⁽¹⁾	Self-classified Regulation 1272/2008 Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,1 - <0,5 %
CAS: 68901-15-5 EC: 272-657-3 Index: Non-applicable REACH: 01-2120770514-54-XXXX	Allyl (cyclohexyloxy)acetate⁽¹⁾	Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	0,1 - <0,5 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Substance with a Union workplace exposure limit

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification		Concentration
CAS: 118-58-1 EC: 204-262-9 Index: 607-754-00-5 REACH: 01-2119969442-31-XXXX	BenzyI salicylate⁽¹⁾ Self-classified		0,1 - <0,5 %
	Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning 	
CAS: 128-37-0 EC: 204-881-4 Index: Non-applicable REACH: 01-2119565113-46-XXXX	2,6-di-tert-butyl-p-cresol⁽¹⁾ Self-classified		0,1 - <0,5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning 	
CAS: 106-24-1 EC: 203-377-1 Index: 603-241-00-5 REACH: 01-2119552430-49-XXXX	Geraniol⁽¹⁾ Self-classified		0,1 - <0,5 %
	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger  	
CAS: 127-91-3 EC: 204-872-5 Index: Non-applicable REACH: 01-2119519230-54-XXXX	Pin-2(10)-ene⁽¹⁾ Self-classified		0,1 - <0,5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger    	
CAS: 68039-49-6 EC: 268-264-1 Index: Non-applicable REACH: Non-applicable	2,4-dimethylcyclohex-3-ene-1-carbaldehyde⁽¹⁾ Self-classified		0,1 - <0,5 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning  	
CAS: 57378-68-4 EC: 260-709-8 Index: Non-applicable REACH: Non-applicable	1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one⁽¹⁾ Self-classified		0,1 - <0,5 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning  	

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	LD50 oral	1394 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	LD50 oral	620,42 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one CAS: 57378-68-4 EC: 260-709-8	LD50 oral	1600 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

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ADBL Black Mist**SECTION 4: FIRST AID MEASURES (continued)****By eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:****Suitable extinguishing media:**

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.:	5 °C
Maximum Temp.:	25 °C
Maximum time:	36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification		Occupational exposure limits		
Butanone CAS: 78-93-3 EC: 201-159-0		IOELV (8h)	200 ppm	600 mg/m ³
		IOELV (STEL)	300 ppm	900 mg/m ³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-methoxy-3-methylbutan-1-ol CAS: 56539-66-3 EC: 260-252-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	6,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	18 mg/m ³	Not relevant
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	20,83 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5,7 mg/m ³	5,7 mg/m ³
Butanone CAS: 78-93-3 EC: 201-159-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1161 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	600 mg/m ³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,75 mg/m ³	Not relevant
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	3,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	24,58 mg/m ³	Not relevant
d-limonene CAS: 5989-27-5 EC: 227-813-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	9,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	66,7 mg/m ³	Not relevant
Cedryl methyl ketone CAS: 32388-55-9 EC: 251-020-3	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,333 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,17 mg/m ³	Not relevant
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	36,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	13,5 mg/m ³	Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,79 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,44 mg/m ³	Not relevant
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	9 mg/m ³	Not relevant
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,448 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,16 mg/m ³	Not relevant
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,21 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	7,8 mg/m ³	Not relevant
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,5 mg/m ³	Not relevant
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	12,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	161,6 mg/m ³	Not relevant
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,8 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5,69 mg/m ³	Not relevant

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-methoxy-3-methylbutan-1-ol CAS: 56539-66-3 EC: 260-252-4	Oral	Not relevant	Not relevant	2,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	3,1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4,4 mg/m ³	Not relevant
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	Oral	9,23 mg/kg	Not relevant	9,23 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	10,42 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,41 mg/m ³	2,41 mg/m ³
Butanone CAS: 78-93-3 EC: 201-159-0	Oral	Not relevant	Not relevant	31 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	412 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	106 mg/m ³	Not relevant
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Oral	Not relevant	Not relevant	0,2 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,68 mg/m ³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Not relevant	Not relevant	2,49 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4,33 mg/m ³	Not relevant
d-limonene CAS: 5989-27-5 EC: 227-813-5	Oral	Not relevant	Not relevant	4,8 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	4,8 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	16,6 mg/m ³	Not relevant
Cedryl methyl ketone CAS: 32388-55-9 EC: 251-020-3	Oral	Not relevant	Not relevant	0,167 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,167 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,29 mg/m ³	Not relevant
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	Oral	Not relevant	Not relevant	2,3 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	22 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4 mg/m ³	Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	Oral	Not relevant	Not relevant	0,062 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,89 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,11 mg/m ³	Not relevant
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Not relevant	Not relevant	0,6 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2,7 mg/m ³	Not relevant
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	Oral	Not relevant	Not relevant	0,16 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,16 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,557 mg/m ³	Not relevant
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	Oral	Not relevant	Not relevant	0,79 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,79 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,37 mg/m ³	Not relevant
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,86 mg/m ³	Not relevant
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Not relevant	Not relevant	13,75 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	7,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	47,8 mg/m ³	Not relevant
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	Oral	Not relevant	Not relevant	0,3 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,3 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1 mg/m ³	Not relevant

PNEC:

Identification					
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	STP	36 mg/L	Fresh water	0,943 mg/L	
	Soil	1,31 mg/kg	Marine water	0,094 mg/L	
	Intermittent	3,44 mg/L	Sediment (Fresh water)	7,237 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,724 mg/kg	
Butanone CAS: 78-93-3 EC: 201-159-0	STP	709 mg/L	Fresh water	55,8 mg/L	
	Soil	22,5 mg/kg	Marine water	55,8 mg/L	
	Intermittent	55,8 mg/L	Sediment (Fresh water)	284,74 mg/kg	
	Oral	1 g/kg	Sediment (Marine water)	284,7 mg/kg	
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	STP	1 mg/L	Fresh water	0,011 mg/L	
	Soil	0,115 mg/kg	Marine water	0,001 mg/L	
	Intermittent	0,11 mg/L	Sediment (Fresh water)	0,609 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,061 mg/kg	
Linalool CAS: 78-70-6 EC: 201-134-4	STP	10 mg/L	Fresh water	0,2 mg/L	
	Soil	0,327 mg/kg	Marine water	0,02 mg/L	
	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg	
	Oral	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
d-limonene CAS: 5989-27-5 EC: 227-813-5	STP	1,8 mg/L	Fresh water	0,014 mg/L
	Soil	0,763 mg/kg	Marine water	0,0014 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
Cedryl methyl ketone CAS: 32388-55-9 EC: 251-020-3	STP	10 mg/L	Fresh water	0,00174 mg/L
	Soil	4,87 mg/kg	Marine water	0,000174 mg/L
	Intermittent	0,0086 mg/L	Sediment (Fresh water)	24,4 mg/kg
	Oral	Not relevant	Sediment (Marine water)	2,44 mg/kg
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	STP	1 mg/L	Fresh water	0,0068 mg/L
	Soil	1,5 mg/kg	Marine water	0,00044 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	2 mg/kg
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	STP	10 mg/L	Fresh water	0,004 mg/L
	Soil	0,103 mg/kg	Marine water	0 mg/L
	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,528 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,053 mg/kg
Citral CAS: 5392-40-5 EC: 226-394-6	STP	1,6 mg/L	Fresh water	0,007 mg/L
	Soil	0,021 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,068 mg/L	Sediment (Fresh water)	0,125 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,013 mg/kg
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	STP	0,3 mg/L	Fresh water	0,00205 mg/L
	Soil	0,375 mg/kg	Marine water	0,000205 mg/L
	Intermittent	0,00205 mg/L	Sediment (Fresh water)	0,0387 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,00387 mg/kg
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	STP	10 mg/L	Fresh water	0,001 mg/L
	Soil	1,41 mg/kg	Marine water	0 mg/L
	Intermittent	0,01 mg/L	Sediment (Fresh water)	0,583 mg/kg
	Oral	0,0527 g/kg	Sediment (Marine water)	0,058 mg/kg
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	STP	0,17 mg/L	Fresh water	0,000199 mg/L
	Soil	0,04769 mg/kg	Marine water	0,00002 mg/L
	Intermittent	0,00199 mg/L	Sediment (Fresh water)	0,0996 mg/kg
	Oral	0,00833 g/kg	Sediment (Marine water)	0,00996 mg/kg
Geraniol CAS: 106-24-1 EC: 203-377-1	STP	0,7 mg/L	Fresh water	0,011 mg/L
	Soil	0,017 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,108 mg/L	Sediment (Fresh water)	0,115 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,011 mg/kg
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	STP	3,26 mg/L	Fresh water	0,001004 mg/L
	Soil	0,067 mg/kg	Marine water	0,0001 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0,337 mg/kg
	Oral	0,0131 g/kg	Sediment (Marine water)	0,034 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2022	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2007

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	95 °C
Vapour pressure at 20 °C:	3723 Pa
Vapour pressure at 50 °C:	18219,02 Pa (18,22 kPa)
Evaporation rate at 20 °C:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Product description:

Density at 20 °C:	890 kg/m ³
Relative density at 20 °C:	0,89
Dynamic viscosity at 20 °C:	0 cP
Kinematic viscosity at 20 °C:	0 mm ² /s
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	5,5 - 6,5
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

Flammability:

Flash Point:	22 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	225 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Particle characteristics:

Median equivalent diameter:	Non-applicable
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9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

Other safety characteristics:

Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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SECTION 10: STABILITY AND REACTIVITY (continued)

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: d-limonene (3); 2,6-di-tert-butyl-p-cresol (3); ethanol (1); propan-2-ol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	LD50 oral	1394 mg/kg (ATEI)	Rat
	LD50 dermal		
	LC50 inhalation		
Butanone CAS: 78-93-3 EC: 201-159-0	LD50 oral	4000 mg/kg	Rat
	LD50 dermal	6400 mg/kg	Rabbit
	LC50 inhalation	23,5 mg/L (4 h)	Rat
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	LD50 oral	14500 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation		
Linalool CAS: 78-70-6 EC: 201-134-4	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation		
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation		
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	LD50 oral	3100 mg/kg	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation		
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation		
Citral CAS: 5392-40-5 EC: 226-394-6	LD50 oral	4950 mg/kg	Rat
	LD50 dermal	2250 mg/kg	Rabbit
	LC50 inhalation		
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	LD50 oral	620,42 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	LD50 oral	2200 mg/kg	Rat
	LD50 dermal	14150 mg/kg	Rabbit
	LC50 inhalation		
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LD50 oral	10000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
Geraniol CAS: 106-24-1 EC: 203-377-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1	LD50 oral	2500 mg/kg	
	LD50 dermal		
	LC50 inhalation		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one CAS: 57378-68-4 EC: 260-709-8	LD50 oral	1600 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Harmful to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration	Species	Genus
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	LC50	344 mg/L (96 h)	Pimephales promelas
	EC50	488 mg/L (48 h)	Daphnia magna
	EC50	443 mg/L (72 h)	Scenedesmus subspicatus
Butanone CAS: 78-93-3 EC: 201-159-0	LC50	3220 mg/L (96 h)	Pimephales promelas
	EC50	5091 mg/L (48 h)	Daphnia magna
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	LC50	11 mg/L (96 h)	Cyprinus carpio
	EC50	15 mg/L (48 h)	Daphnia magna
	EC50	62 mg/L (72 h)	Desmodesmus subspicatus
d-limonene CAS: 5989-27-5 EC: 227-813-5	LC50	0,702 mg/L (96 h)	Pimephales promelas
	EC50	0,577 mg/L (48 h)	Daphnia magna
	EC50	Not relevant	
Cedryl methyl ketone CAS: 32388-55-9 EC: 251-020-3	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	LC50	0,95 mg/L (96 h)	Oryzias latipes
	EC50	0,194 mg/L (48 h)	Daphnia magna
	EC50	0,723 mg/L (72 h)	Pseudokirchneriella subcapitata
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LC50	2 mg/L (96 h)	Danio rerio
	EC50	11 mg/L (48 h)	Daphnia magna
	EC50	29 mg/L (72 h)	Desmodesmus subspicatus
Citral CAS: 5392-40-5 EC: 226-394-6	LC50	6,1 mg/L (24 h)	Oryzias latipes
	EC50	11 mg/L (24 h)	Daphnia magna
	EC50	16 mg/L (72 h)	Scenedesmus subspicatus
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one CAS: 54464-57-2 EC: 259-174-3	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	LC50	0,205 mg/L (96 h)	Danio rerio
	EC50	6,09 mg/L (48 h)	Daphnia magna
	EC50	36,6 mg/L (72 h)	Pseudokirchneriella subcapitata
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	LC50	1,03 mg/L (96 h)	Brachydanio rerio
	EC50	1,2 mg/L (48 h)	Daphnia magna
	EC50	1,3 mg/L (72 h)	Selenastrum capricornutum
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LC50	0,57 mg/L (96 h)	Brachydanio rerio
	EC50	0,61 mg/L (48 h)	Daphnia magna
	EC50	Not relevant	
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	LC50	>0.1 - 1 mg/L (96 h)	Fish
	EC50	>0.1 - 1 mg/L (48 h)	Crustacean
	EC50	>0.1 - 1 mg/L (72 h)	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration	Species	Genus
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1	LC50 > 1 - 10 mg/L (96 h)		Fish
	EC50 > 1 - 10 mg/L (48 h)		Crustacean
	EC50 > 1 - 10 mg/L (72 h)		Algae
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one CAS: 57378-68-4 EC: 260-709-8	LC50 > 0.1 - 1 mg/L (96 h)		Fish
	EC50 > 0.1 - 1 mg/L (48 h)		Crustacean
	EC50 > 0.1 - 1 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration	Species	Genus
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	NOEC 23 mg/L	Pimephales promelas	Fish
	NOEC 9,43 mg/L	Daphnia magna	Crustacean
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	NOEC 0,2 mg/L	Pimephales promelas	Fish
	NOEC Not relevant		
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	NOEC Not relevant		
	NOEC 3,2 mg/L	Daphnia magna	Crustacean
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	NOEC 0,053 mg/L	Oryzias latipes	Fish
	NOEC 0,069 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability	Biodegradability
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	BOD5 Not relevant	Concentration 20 mg/L
	COD Not relevant	Period 3 days
	BOD5/COD Not relevant	% Biodegradable 93 %
Butanone CAS: 78-93-3 EC: 201-159-0	BOD5 2,03 g O2/g	Concentration Not relevant
	COD 2,31 g O2/g	Period 20 days
	BOD5/COD 0,88	% Biodegradable 89 %
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	BOD5 Not relevant	Concentration 81 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 80 %
Linalool CAS: 78-70-6 EC: 201-134-4	BOD5 Not relevant	Concentration 100 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 90 %
d-limonene CAS: 5989-27-5 EC: 227-813-5	BOD5 Not relevant	Concentration 10 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 71,4 %
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	BOD5 Not relevant	Concentration 20 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 81 %
Citral CAS: 5392-40-5 EC: 226-394-6	BOD5 0,56 g O2/g	Concentration 100 mg/L
	COD 1,99 g O2/g	Period 28 days
	BOD5/COD 0,28	% Biodegradable 92 %
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	BOD5 Not relevant	Concentration 100 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 93 %
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BOD5 Not relevant	Concentration 50 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 4,5 %
Geraniol CAS: 106-24-1 EC: 203-377-1	BOD5 Not relevant	Concentration 100 mg/L
	COD Not relevant	Period 21 days
	BOD5/COD Not relevant	% Biodegradable 70 %

12.3 Bioaccumulative potential:

Substance-specific information:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	BCF	5
	Pow Log	1.13
	Potential	Low
Butanone CAS: 78-93-3 EC: 201-159-0	BCF	3
	Pow Log	0.29
	Potential	Low
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	BCF	174
	Pow Log	3.9
	Potential	High
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	
	Pow Log	2.97
	Potential	
d-limonene CAS: 5989-27-5 EC: 227-813-5	BCF	
	Pow Log	4.83
	Potential	
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	BCF	17
	Pow Log	
	Potential	Low
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	BCF	1584
	Pow Log	5.9
	Potential	Very High
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	BCF	275
	Pow Log	4.2
	Potential	High
Citral CAS: 5392-40-5 EC: 226-394-6	BCF	10
	Pow Log	3.45
	Potential	Low
Allyl (cyclohexyloxy)acetate CAS: 68901-15-5 EC: 272-657-3	BCF	
	Pow Log	2.18
	Potential	
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	BCF	311
	Pow Log	4
	Potential	High
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF	1365
	Pow Log	5.1
	Potential	Very High
Geraniol CAS: 106-24-1 EC: 203-377-1	BCF	110
	Pow Log	3.56
	Potential	High
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	BCF	440
	Pow Log	4.35
	Potential	High

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-phenoxyethanol CAS: 122-99-6 EC: 204-589-7	Koc	41	Henry	1,57E-3 Pa·m³/mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Not relevant	Moist soil	No
Butanone CAS: 78-93-3 EC: 201-159-0	Koc	30	Henry	5,77 Pa·m³/mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,396E-2 N/m (25 °C)	Moist soil	Yes
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Koc	518	Henry	177 Pa·m³/mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	Not relevant	Moist soil	Yes

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
d-limonene	Koc	6324	Henry	2533,13 Pa·m ³ /mol
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Yes
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 °C)	Moist soil	Yes
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	Koc	1285	Henry	2,52 Pa·m ³ /mol
CAS: 80-54-6	Conclusion	Low	Dry soil	Yes
EC: 201-289-8	Surface tension	Not relevant	Moist soil	Yes
Allyl (cyclohexyloxy)acetate	Koc	152.71	Henry	6,23 Pa·m ³ /mol
CAS: 68901-15-5	Conclusion	High	Dry soil	Not relevant
EC: 272-657-3	Surface tension	Not relevant	Moist soil	Not relevant
Benzyl salicylate	Koc	5600	Henry	Not relevant
CAS: 118-58-1	Conclusion	Immobile	Dry soil	Not relevant
EC: 204-262-9	Surface tension	Not relevant	Moist soil	Not relevant
2,6-di-tert-butyl-p-cresol	Koc	8183	Henry	3,42E-1 Pa·m ³ /mol
CAS: 128-37-0	Conclusion	Immobile	Dry soil	Yes
EC: 204-881-4	Surface tension	1,255E-2 N/m (258,85 °C)	Moist soil	Yes
Pin-2(10)-ene	Koc	Not relevant	Henry	Not relevant
CAS: 127-91-3	Conclusion	Not relevant	Dry soil	Not relevant
EC: 204-872-5	Surface tension	2,685E-2 N/m (25 °C)	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
07 01 04*	other organic solvents, washing liquids and mother liquors	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

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SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ethanol)
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Special regulations:	274, 601, 640D
Tunnel restriction code:	D/E
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



14.1 UN number or ID number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ethanol)
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	II
14.5 Marine pollutant:	No
14.6 Special precautions for user	
Special regulations:	274
EmS Codes:	F-E, S-E
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
Segregation group:	Not relevant
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



14.1 UN number or ID number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ethanol)
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 2-phenoxyethanol.

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SECTION 15: REGULATORY INFORMATION (continued)

- Article 95, REGULATION (EU) No 528/2012: *2-phenoxyethanol (122-99-6) - PT: (1,2,4,6,13) ; Geraniol (106-24-1) - PT: (18,19)*
- Candidatesubstances for authorisation under the Regulation (EC) No 1907/2006 (REACH):
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch (80-54-6)
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Precautionary statements

Texts of the legislative phrases mentioned in section 2:

H412: Harmful to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

H225: Highly flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Repr. 1B: H360Fd - May damage fertility. Suspected of damaging the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

STOT SE 3: H336 - May cause drowsiness or dizziness.

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SECTION 16: OTHER INFORMATION (continued)

Classification procedure:

Aquatic Chronic 3: Calculation method

Skin Sens. 1A: Calculation method

Flam. Liq. 2: Calculation method (2.6.4.3)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -