



Lily & Jasmine

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

- 1.1 Product identifier:** Lily & Jasmine
Product code: 4368787
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Essence
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:**
ECHOES MUM VE KOKU TASARIM PAZARLAMA VE SAN. A.Ş
FERİKÖY FIRIN SOKAK NO: 69 KAT: 4 34360
BOMONTI / ŞİŞLİ - İSTANBUL
T + 90 212 231 41 54
info@candlelab.com.tr - www.candlelab.com.tr
- 1.4 Emergency telephone number:** 114

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 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Eye Irrit. 2: Eye irritation, Category 2, H319
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Warning
- Hazard statements:**
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Precautionary statements:**
P264: Wash thoroughly after handling.
P273: Avoid release to the environment.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- Supplementary information:**
Contains (1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate, (E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)pent-1-en-3-one, (E)-2-benzylideneoctanal, (r)-p-mentha-1,8-diene, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, 3-p-cumenyl-2-methylpropionaldehyde, Benzyl cinnamate, Cinnamyl alcohol, Citronellol, Eugenol, Geraniol, Heptanal, 2-(phenylmethylene)-, (2E)-, Hexyl salicylate, Hydroxy-citronellal, Linalool, Linalyl acetate, Methyl cinnamate, Piperonal, Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol.
- Substances that contribute to the classification**
(E)-2-methoxy-4-(prop-1-enyl)phenol

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

Page 1/25



Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

SECTION 2: HAZARDS IDENTIFICATION (continued)

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture based on aromatising substances and preparations.

Components:

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

Identification	Chemical name/Classification	Concentration
CAS: 165184-98-5 EC: 639-566-4 Index: Non-applicable REACH:01-2119533092-50-XXXX	(E)-2-benzylideneoctanal⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning	5 - <25 %
CAS: 107-75-5 EC: 203-518-7 Index: Non-applicable REACH:01-2119973482-31-XXXX	Hydroxy-citronella⁽¹⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	5 - <25 %
CAS: 60-12-8 EC: 200-456-2 Index: Non-applicable REACH:01-2119963921-31-XXXX	2-phenylethanol⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	5 - <25 %
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH:01-2119474016-42-XXXX	Linalool⁽¹⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 8050-15-5 EC: 232-476-2 Index: Non-applicable REACH:01-2119969275-26-XXXX	Resin acids and Rosin acids, hydrogenated, Me esters⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412	1 - <5 %
CAS: 63500-71-0 EC: 405-040-6 Index: 603-101-00-3 REACH:01-2119455547-30-XXXX	Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)⁽¹⁾ ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	1 - <5 %
CAS: 106-22-9 EC: 203-375-0 Index: Non-applicable REACH:01-2119453995-23-XXXX	Citronello⁽¹⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 140-11-4 EC: 205-399-7 Index: Non-applicable REACH:01-2119638272-42-XXXX	Benzyl acetate⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412	1 - <5 %
CAS: 106-24-1 EC: 203-377-1 Index: 603-241-00-5 REACH:01-2119552430-49-XXXX	Geraniol⁽¹⁾ Self-classified Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	1 - <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	1 - <5 %
CAS: 78605-96-6 EC: 800-696-3 Index: Non-applicable REACH:01-2119978288-18-XXXX	Heptanal, 2-(phenylmethylene)-, (2E)⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	1 - <5 %

⁽¹⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

Page 2/25



Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification	Concentration
CAS: 103-95-7 EC: 203-161-7 Index: Non-applicable REACH:01-2119970582-32-XXXX	3-p-cumenyl-2-methylpropionaldehyde⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 103-41-3 EC: 203-109-3 Index: Non-applicable REACH:01-21210105065-72-XXXX	Benzyl cinnamate⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
CAS: 5932-68-3 EC: 227-678-2 Index: 604-094-00-X REACH:01-2120223682-61-XXXX	(E)-2-methoxy-4-(prop-1-enyl)phenol⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317; STOT SE 3: H335 - Warning	0,1 - <1 %
CAS: 5502-75-0 EC: 939-719-8 Index: Non-applicable REACH:01-2119983532-32-XXXX	Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol⁽¹⁾ Self-classified Regulation 1272/2008 Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
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 - <1 %
CAS: 6259-76-3 EC: 228-408-6 Index: Non-applicable REACH:01-2119638275-36-XXXX	Hexyl salicylate⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 1: H410; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
CAS: 97-53-0 EC: 202-589-1 Index: Non-applicable REACH:01-2119971802-33-XXXX	Eugenol⁽¹⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
CAS: 35836-72-7 EC: 800-940-9 Index: Non-applicable REACH:01-2119982322-38-XXXX	(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
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 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	0,1 - <1 %
CAS: 127-51-5 EC: 204-846-3 Index: Non-applicable REACH:01-2120138569-45-XXXX	3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411	0,1 - <1 %
CAS: 120-57-0 EC: 204-409-7 Index: Non-applicable REACH:01-2119983608-21-XXXX	Piperonal⁽¹⁾ Self-classified Regulation 1272/2008 Repr. 2: H361fd; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
CAS: 104-54-1 EC: 203-212-3 Index: Non-applicable REACH:01-2119934496-29-XXXX	Cinnamyl alcohol⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning	0,1 - <1 %
CAS: 5989-27-5 EC: 227-813-5 Index: Non-applicable REACH:01-2119529223-47-XXXX	(r)-p-mentha-1,8-diene⁽¹⁾ Self-classified 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. 1: H317 - Danger	0,1 - <1 %
CAS: 68039-49-6 EC: 268-264-1 Index: Non-applicable REACH:Non-applicable	2,4-dimethylcyclohex-3-ene-1-carbaldehyde⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
CAS: 18096-62-3 EC: 241-997-4 Index: Non-applicable REACH:01-2120760170-66-XXXX	4,4a,5,9b-tetrahydroindeno[1,2-d]-1,3-dioxin⁽¹⁾ Self-classified Regulation 1272/2008 Repr. 2: H361f - Warning	0,1 - <1 %

⁽¹⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

Page 3/25



Lily & Jasmine

Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification		Concentration
CAS: 81-14-1 EC: 201-328-9 Index: 609-069-00-7 REACH:01-212076629-37-XXXX	musk ketone⁽¹⁾	ATP ATP01 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351 - Warning	0,1 - <1 %
CAS: 67634-00-8 EC: 266-803-5 Index: Non-applicable REACH:01-2120795456-39-XXXX	Allyl (3-methylbutoxy)acetate⁽¹⁾	Self-classified Regulation 1272/2008 Acute Tox. 2: H330; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Danger	0,1 - <1 %
CAS: 103-26-4 EC: 203-093-8 Index: Non-applicable REACH:01-2119979458-16-XXXX	Methyl cinnamate⁽¹⁾	Self-classified Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	0,1 - <1 %
CAS: 63429-28-7 EC: 264-140-6 Index: Non-applicable REACH:01-2120088022-64-XXXX	(E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)pent-1-en-3-one⁽¹⁾	Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,1 - <1 %

⁽¹⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

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

Other information:

Identification	Specific concentration limit
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	% (w/w) >=0,01; Skin Sens. 1A - H317

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.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of 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:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

- CONTINUED ON NEXT PAGE -



Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 5: FIREFIGHTING MEASURES (continued)

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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 spilled 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.

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 with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

SECTION 7: HANDLING AND STORAGE (continued)

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.- Technical measures for storage

Minimum Temp.: -

Maximum Temp.: -

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):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
(E)-2-benzylideneoctanal CAS: 165184-98-5 EC: 639-566-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	18,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	6,28 mg/m ³	0,078 mg/m ³	Non-applicable
Hydroxy-citronellal CAS: 107-75-5 EC: 203-518-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,9 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	18 mg/m ³	Non-applicable
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	21,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	59,9 mg/m ³	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	24,58 mg/m ³	Non-applicable
Resin acids and Rosin acids, hydrogenated, Me esters CAS: 8050-15-5 EC: 232-476-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	7,77 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	10 mg/m ³
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	41,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	44,1 mg/m ³	Non-applicable
Citronellol CAS: 106-22-9 EC: 203-375-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	327,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	10 mg/m ³	161,6 mg/m ³	10 mg/m ³
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m ³	Non-applicable

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

Page 6/25



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	161,6 mg/m ³	Non-applicable
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,75 mg/m ³	Non-applicable
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,71 mg/m ³	Non-applicable
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,83 mg/m ³	Non-applicable
Benzyl cinnamate CAS: 103-41-3 EC: 203-109-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	7,05 mg/m ³	Non-applicable
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,71 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6 mg/m ³	Non-applicable
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol CAS: 5502-75-0 EC: 939-719-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,88 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,63 mg/m ³	Non-applicable
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	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	36,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	13,5 mg/m ³	Non-applicable
Hexyl salicylate CAS: 6259-76-3 EC: 228-408-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	6,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,7 mg/m ³	Non-applicable
Eugenol CAS: 97-53-0 EC: 202-589-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	6 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	21,2 mg/m ³	Non-applicable
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate CAS: 35836-72-7 EC: 800-940-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,1 mg/m ³	Non-applicable
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,5 mg/m ³	Non-applicable
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,375 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,22 mg/m ³	Non-applicable
Piperonal CAS: 120-57-0 EC: 204-409-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	17,6 mg/m ³	Non-applicable
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,749 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,64 mg/m ³	Non-applicable
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	9,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	66,7 mg/m ³	Non-applicable

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
4,4a,5,9b-tetrahydroindeno[1,2-d]-1,3-dioxin CAS: 18096-62-3 EC: 241-997-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,12 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,43 mg/m ³	Non-applicable
musk ketone CAS: 81-14-1 EC: 201-328-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,563 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,247 mg/m ³	Non-applicable
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,93 mg/m ³	Non-applicable
Methyl cinnamate CAS: 103-26-4 EC: 203-093-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	28,2 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
(E)-2-benzylideneoctanal CAS: 165184-98-5 EC: 639-566-4	Oral	Non-applicable	Non-applicable	0,056 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	9,11 mg/kg	Non-applicable
	Inhalation	Non-applicable	4,71 mg/m ³	0,019 mg/m ³	Non-applicable
Hydroxy-citronellal CAS: 107-75-5 EC: 203-518-7	Oral	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,4 mg/m ³	Non-applicable
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	Oral	5,1 mg/kg	Non-applicable	5,1 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	12,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	17,7 mg/m ³	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	2,49 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,33 mg/m ³	Non-applicable
Resin acids and Rosin acids, hydrogenated, Me esters CAS: 8050-15-5 EC: 232-476-2	Oral	Non-applicable	Non-applicable	3,885 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,885 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	Oral	Non-applicable	Non-applicable	7,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	13 mg/m ³	Non-applicable
Citronellol CAS: 106-22-9 EC: 203-375-0	Oral	Non-applicable	Non-applicable	13,8 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	196,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	10 mg/m ³	47,8 mg/m ³	10 mg/m ³
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	Oral	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,2 mg/m ³	Non-applicable
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	13,75 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	7,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	47,8 mg/m ³	Non-applicable
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Oral	Non-applicable	Non-applicable	0,2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,68 mg/m ³	Non-applicable
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	Oral	Non-applicable	Non-applicable	0,167 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,625 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,922 mg/m ³	Non-applicable

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

Page 8/25



Lily & Jasmine

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Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,45 mg/m ³	Non-applicable
Benzyl cinnamate CAS: 103-41-3 EC: 203-109-3	Oral	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,74 mg/m ³	Non-applicable
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	Oral	Non-applicable	Non-applicable	0,85 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,85 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,5 mg/m ³	Non-applicable
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol CAS: 5502-75-0 EC: 939-719-8	Oral	Non-applicable	Non-applicable	0,94 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,94 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,63 mg/m ³	Non-applicable
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	Non-applicable	Non-applicable	2,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	22 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4 mg/m ³	Non-applicable
Hexyl salicylate CAS: 6259-76-3 EC: 228-408-6	Oral	Non-applicable	Non-applicable	0,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,4 mg/m ³	Non-applicable
Eugenol CAS: 97-53-0 EC: 202-589-1	Oral	Non-applicable	Non-applicable	3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,22 mg/m ³	Non-applicable
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate CAS: 35836-72-7 EC: 800-940-9	Oral	Non-applicable	Non-applicable	0,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,5 mg/m ³	Non-applicable
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,86 mg/m ³	Non-applicable
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Oral	Non-applicable	Non-applicable	0,0355 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,0446 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,45 mg/m ³	Non-applicable
Piperonal CAS: 120-57-0 EC: 204-409-7	Oral	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,3 mg/m ³	Non-applicable
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	Oral	Non-applicable	Non-applicable	0,268 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,268 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,465 mg/m ³	Non-applicable
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	16,6 mg/m ³	Non-applicable
4,4a,5,9b-tetrahydroindeno[1,2-d]-1,3-dioxin CAS: 18096-62-3 EC: 241-997-4	Oral	Non-applicable	Non-applicable	0,044 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,044 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,076 mg/m ³	Non-applicable
musk ketone CAS: 81-14-1 EC: 201-328-9	Oral	Non-applicable	Non-applicable	0,025 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,067 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,0435 mg/m ³	Non-applicable
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,87 mg/m ³	Non-applicable

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

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Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Methyl cinnamate CAS: 103-26-4 EC: 203-093-8	Oral	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,96 mg/m ³	Non-applicable

PNEC:

Identification				
(E)-2-benzylideneoctanal CAS: 165184-98-5 EC: 639-566-4	STP	10 mg/L	Fresh water	0,001 mg/L
	Soil	0,398 mg/kg	Marine water	0 mg/L
	Intermittent	0,002 mg/L	Sediment (Fresh water)	3,2 mg/kg
	Oral	0,0066 g/kg	Sediment (Marine water)	0,064 mg/kg
Hydroxy-citronellal CAS: 107-75-5 EC: 203-518-7	STP	10 mg/L	Fresh water	0,0316 mg/L
	Soil	0,011 mg/kg	Marine water	0,00316 mg/L
	Intermittent	0,316 mg/L	Sediment (Fresh water)	0,145 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,015 mg/kg
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	STP	10 mg/L	Fresh water	0,215 mg/L
	Soil	0,164 mg/kg	Marine water	0,021 mg/L
	Intermittent	2,15 mg/L	Sediment (Fresh water)	1,454 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,145 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
Resin acids and Rosin acids, hydrogenated, Me esters CAS: 8050-15-5 EC: 232-476-2	STP	1,26 mg/L	Fresh water	0,027 mg/L
	Soil	15,35 mg/kg	Marine water	0,003 mg/L
	Intermittent	0,27 mg/L	Sediment (Fresh water)	77,05 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	7,7 mg/kg
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	STP	10 mg/L	Fresh water	0,094 mg/L
	Soil	0,09 mg/kg	Marine water	0,009 mg/L
	Intermittent	0,94 mg/L	Sediment (Fresh water)	0,412 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,041 mg/kg
Citronellol CAS: 106-22-9 EC: 203-375-0	STP	580 mg/L	Fresh water	0,002 mg/L
	Soil	0,004 mg/kg	Marine water	0 mg/L
	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,026 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,003 mg/kg
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	STP	8,55 mg/L	Fresh water	0,018 mg/L
	Soil	0,094 mg/kg	Marine water	0,002 mg/L
	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,526 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,053 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	Non-applicable	Sediment (Marine water)	0,011 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	Non-applicable	Sediment (Marine water)	0,061 mg/kg
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	STP	100 mg/L	Fresh water	0,002 mg/L
	Soil	0,317 mg/kg	Marine water	0 mg/L
	Intermittent	0,019 mg/L	Sediment (Fresh water)	1,6 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,16 mg/kg

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

Page 10/25



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	STP	1 mg/L	Fresh water	0,00109 mg/L
	Soil	0,025 mg/kg	Marine water	0,00011 mg/L
	Intermittent	0,01092 mg/L	Sediment (Fresh water)	0,126 mg/kg
	Oral	0,0333 g/kg	Sediment (Marine water)	0,013 mg/kg
Benzyl cinnamate CAS: 103-41-3 EC: 203-109-3	STP	10 mg/L	Fresh water	0 mg/L
	Soil	0,037 mg/kg	Marine water	0 mg/L
	Intermittent	0,004 mg/L	Sediment (Fresh water)	0,188 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,019 mg/kg
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	STP	10 mg/L	Fresh water	0,0047 mg/L
	Soil	0,007 mg/kg	Marine water	0,00047 mg/L
	Intermittent	0,047 mg/L	Sediment (Fresh water)	0,047 mg/kg
	Oral	0,0415 g/kg	Sediment (Marine water)	0,005 mg/kg
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol CAS: 5502-75-0 EC: 939-719-8	STP	1,9 mg/L	Fresh water	0,0044 mg/L
	Soil	0,051 mg/kg	Marine water	0,00044 mg/L
	Intermittent	0,044 mg/L	Sediment (Fresh water)	0,266 mg/kg
	Oral	0,04178 g/kg	Sediment (Marine water)	0,0266 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	Non-applicable	Sediment (Fresh water)	2 mg/kg
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg
Hexyl salicylate CAS: 6259-76-3 EC: 228-408-6	STP	10 mg/L	Fresh water	0 mg/L
	Soil	0,054 mg/kg	Marine water	0 mg/L
	Intermittent	0,004 mg/L	Sediment (Fresh water)	0,272 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,027 mg/kg
Eugenol CAS: 97-53-0 EC: 202-589-1	STP	Non-applicable	Fresh water	0,00113 mg/L
	Soil	0,015 mg/kg	Marine water	0,000113 mg/L
	Intermittent	0,0113 mg/L	Sediment (Fresh water)	0,081 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,008 mg/kg
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate CAS: 35836-72-7 EC: 800-940-9	STP	4 mg/L	Fresh water	0,00711 mg/L
	Soil	0,196 mg/kg	Marine water	0,000711 mg/L
	Intermittent	0,0711 mg/L	Sediment (Fresh water)	0,999 mg/kg
	Oral	0,01201 g/kg	Sediment (Marine water)	0,0999 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
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	STP	10 mg/L	Fresh water	0,00143 mg/L
	Soil	0,0878 mg/kg	Marine water	0,000143 mg/L
	Intermittent	0,0143 mg/L	Sediment (Fresh water)	0,443 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0443 mg/kg
Piperonal CAS: 120-57-0 EC: 204-409-7	STP	10 mg/L	Fresh water	0,0025 mg/L
	Soil	0,00084 mg/kg	Marine water	0,00025 mg/L
	Intermittent	0,025 mg/L	Sediment (Fresh water)	0,0119 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0012 mg/kg
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	STP	16,127 mg/L	Fresh water	0,0077 mg/L
	Soil	0,019 mg/kg	Marine water	0,00077 mg/L
	Intermittent	0,077 mg/L	Sediment (Fresh water)	0,118 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0118 mg/kg

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
(r)-p-mentha-1,8-diene 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	Non-applicable	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
musk ketone CAS: 81-14-1 EC: 201-328-9	STP	10 mg/L	Fresh water	0,000244 mg/L
	Soil	0,0122 mg/kg	Marine water	0,000244 mg/L
	Intermittent	0,00244 mg/L	Sediment (Fresh water)	0,0618 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00618 mg/kg
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	STP	Non-applicable	Fresh water	0,00077 mg/L
	Soil	0,00133 mg/kg	Marine water	0,000077 mg/L
	Intermittent	0,0077 mg/L	Sediment (Fresh water)	0,00893 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,000893 mg/kg
Methyl cinnamate CAS: 103-26-4 EC: 203-093-8	STP	1,81 mg/L	Fresh water	0,00276 mg/L
	Soil	0,013 mg/kg	Marine water	0,000276 mg/L
	Intermittent	0,0276 mg/L	Sediment (Fresh water)	0,074 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0074 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



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 420:2004+A1:2010 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 20347:2012	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 20345:2012 y EN 13832-1:2007

- CONTINUED ON NEXT PAGE -





Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	7,2 % weight
V.O.C. density at 20 °C:	Non-applicable
Average carbon number:	9,67
Average molecular weight:	153,04 g/mol

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:	Not available
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	>40 °C
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	Non-applicable *
Relative density at 20 °C:	0,95 - 0,96
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *

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

- CONTINUED ON NEXT PAGE -



Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: >100 °C

Flammability (solid, gas): Non-applicable *

Autoignition temperature: Non-applicable *

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable components: Non-applicable *

Other safety characteristics:

Surface tension at 20 °C: Non-applicable *

Refraction index: Non-applicable *

*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.

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:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	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:

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

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

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : 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.
- Corrosivity/Irritability: 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.

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

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

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

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
IARC: Benzyl acetate (3); Eugenol (3); 2,6-di-tert-butyl-p-cresol (3); (r)-p-mentha-1,8-diene (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, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

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:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
(E)-2-benzylideneoctanal CAS: 165184-98-5 EC: 639-566-4	3100 mg/kg	>2000 mg/kg	Rat
Hydroxy-citronellal CAS: 107-75-5 EC: 203-518-7	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LD50 oral	1610 mg/kg	Rat
	LD50 dermal	2100 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Linalool CAS: 78-70-6 EC: 201-134-4	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Resin acids and Rosin acids, hydrogenated, Me esters CAS: 8050-15-5 EC: 232-476-2	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Citronellol CAS: 106-22-9 EC: 203-375-0	LD50 oral	3450 mg/kg	Rat
	LD50 dermal	2650 mg/kg	
	LC50 inhalation	>20 mg/L	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	LD50 oral	2490 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Geraniol CAS: 106-24-1 EC: 203-377-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	LD50 oral	14500 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	LD50 oral	3810 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	LD50 oral	500 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	0,51 mg/L (4 h)	Rat
Benzyl cinnamate CAS: 103-41-3 EC: 203-109-3	LD50 oral	3280 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>5 mg/L	
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	LD50 oral	450 mg/kg	Rat
	LD50 dermal	1911 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol CAS: 5502-75-0 EC: 939-719-8	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
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	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Hexyl salicylate CAS: 6259-76-3 EC: 228-408-6	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Eugenol CAS: 97-53-0 EC: 202-589-1	LD50 oral	2300 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

Page 16/25



Lily & Jasmine

Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate CAS: 35836-72-7 EC: 800-940-9	3470 mg/kg	>2000 mg/kg	Mouse
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	10000 mg/kg	>2000 mg/kg	Rat
	>2000 mg/kg	>2000 mg/kg	
	>5 mg/L	>5 mg/L	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	>5000 mg/kg	>5000 mg/kg	Rat
	>5000 mg/kg	>5000 mg/kg	Rabbit
	>20 mg/L	>20 mg/L	
Piperonal CAS: 120-57-0 EC: 204-409-7	2700 mg/kg	>2000 mg/kg	Rat
	>2000 mg/kg	>2000 mg/kg	
	Non-applicable	Non-applicable	
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	2000 mg/kg	>2000 mg/kg	Rat
	>2000 mg/kg	>2000 mg/kg	
	>5 mg/L	>5 mg/L	
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	>2000 mg/kg	>2000 mg/kg	
	>2000 mg/kg	>2000 mg/kg	
	>20 mg/L	>20 mg/L	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1	2500 mg/kg	>2000 mg/kg	
	>2000 mg/kg	>2000 mg/kg	
	>20 mg/L	>20 mg/L	
4,4a,5,9b-tetrahydroindeno[1,2-d]-1,3-dioxin CAS: 18096-62-3 EC: 241-997-4	>2000 mg/kg	>2000 mg/kg	
	>2000 mg/kg	>2000 mg/kg	
	Non-applicable	Non-applicable	
musk ketone CAS: 81-14-1 EC: 201-328-9	>2000 mg/kg	>2000 mg/kg	
	>2000 mg/kg	>2000 mg/kg	
	>5 mg/L	>5 mg/L	
Methyl cinnamate CAS: 103-26-4 EC: 203-093-8	2610 mg/kg	>2000 mg/kg	
	>2000 mg/kg	>2000 mg/kg	
	>5 mg/L	>5 mg/L	
(E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)pent-1-en-3-one CAS: 63429-28-7 EC: 264-140-6	>2000 mg/kg	>2000 mg/kg	
	>2000 mg/kg	>2000 mg/kg	
	>20 mg/L	>20 mg/L	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	23000 mg/kg (Calculation method)	0 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	127,5 mg/L (4 h) (Calculation method)	0 %

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Acute toxicity:

Identification	Concentration	Species	Genus
(E)-2-benzylideneoctanal CAS: 165184-98-5 EC: 639-566-4	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
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LC50	Non-applicable	
	EC50	330 mg/L (24 h)	Daphnia magna Crustacean
	EC50	490 mg/L (72 h)	Scenedesmus subspicatus Algae
Resin acids and Rosin acids, hydrogenated, Me esters CAS: 8050-15-5 EC: 232-476-2	LC50	>10 - 100 mg/L (96 h)	Fish
	EC50	>10 - 100 mg/L (48 h)	Crustacean
	EC50	>10 - 100 mg/L (72 h)	Algae
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	LC50	Non-applicable	
	EC50	320 mg/L (48 h)	Daphnia magna Crustacean
	EC50	Non-applicable	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	LC50	Non-applicable	
	EC50	17 mg/L (48 h)	Daphnia magna Crustacean
	EC50	110 mg/L (72 h)	Desmodesmus subspicatus Algae
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	LC50	11 mg/L (96 h)	Cyprinus carpio Fish
	EC50	15 mg/L (48 h)	Daphnia magna Crustacean
	EC50	62 mg/L (72 h)	Desmodesmus subspicatus Algae
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	LC50	3 mg/L (96 h)	Brachydanio rerio Fish
	EC50	1,1 mg/L (48 h)	Daphnia magna Crustacean
	EC50	1,9 mg/L (72 h)	Selenastrum capricornutum Algae
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	LC50	1,092 mg/L (96 h)	N/A Fish
	EC50	1,4 mg/L (48 h)	Daphnia magna Crustacean
	EC50	3,8 mg/L (72 h)	Pseudokirchneriella subcapitata Algae
Benzyl cinnamate CAS: 103-41-3 EC: 203-109-3	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 Fish
	EC50	0,194 mg/L (48 h)	Daphnia magna Crustacean
	EC50	0,723 mg/L (72 h)	Pseudokirchneriella subcapitata Algae
Hexyl salicylate CAS: 6259-76-3 EC: 228-408-6	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
Eugenol CAS: 97-53-0 EC: 202-589-1	LC50	60,8 mg/L (96 h)	Oncorhynchus mykiss Fish
	EC50	Non-applicable	
	EC50	Non-applicable	
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate CAS: 35836-72-7 EC: 800-940-9	LC50	11 mg/L (96 h)	Danio rerio Fish
	EC50	12 mg/L (48 h)	Daphnia magna Crustacean
	EC50	7 mg/L (72 h)	Pseudokirchneriella subcapitata Algae
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LC50	0,57 mg/L (96 h)	Brachydanio rerio Fish
	EC50	0,61 mg/L (48 h)	Daphnia magna Crustacean
	EC50	Non-applicable	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	LC50	1,428 mg/L (96 h)	Oncorhynchus mykiss Fish
	EC50	4,7 mg/L (48 h)	Daphnia magna Crustacean
	EC50	20 mg/L (72 h)	Desmodesmus subspicatus Algae
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	LC50	9 mg/L (96 h)	Danio rerio Fish
	EC50	7,7 mg/L (48 h)	Daphnia magna Crustacean
	EC50	19,7 mg/L (72 h)	Desmodesmus subspicatus Algae

- CONTINUED ON NEXT PAGE -

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

Page 18/25



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
(r)-p-mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5	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
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
musk ketone CAS: 81-14-1 EC: 201-328-9	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 (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	LC50	0,77 mg/L (96 h)	N/A	Fish
	EC50	5,09 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	2,06 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
(E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)pent-1-en-3-one CAS: 63429-28-7 EC: 264-140-6	LC50	Non-applicable		
	EC50	1,3 mg/L (48 h)	Daphnia sp.	Crustacean
	EC50	1,1 mg/L (72 h)	N/A	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	NOEC	0,92 mg/L	Oryzias latipes	Fish
	NOEC	Non-applicable		
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	NOEC	0,33 mg/L	Danio rerio	Fish
	NOEC	0,011 mg/L	Daphnia magna	Crustacean
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	NOEC	Non-applicable		
	NOEC	0,71 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-phenylethanol CAS: 60-12-8 EC: 200-456-2	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	87 %
Linalool CAS: 78-70-6 EC: 201-134-4	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	10 %
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %
Geraniol CAS: 106-24-1 EC: 203-377-1	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	21 days
	BOD5/COD	Non-applicable	% Biodegradable	70 %
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	BOD5	Non-applicable	Concentration	81 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	80 %
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradability	
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	65,5 %
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	79 %
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol CAS: 5502-75-0 EC: 939-719-8	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	91 %
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate CAS: 35836-72-7 EC: 800-940-9	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	78 %
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BOD5	Non-applicable	Concentration	50 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	4,5 %
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	BOD5	Non-applicable	Concentration	4 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	42,51 %
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	BOD5	Non-applicable	Concentration	4 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	51,52 %
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	BOD5	Non-applicable	Concentration	240 mg/L
	COD	Non-applicable	Period	13 days
	BOD5/COD	Non-applicable	% Biodegradable	78 %
(E)-1-(2,6,6-trimethyl-1-cyclohexen-1-yl)pent-1-en-3-one CAS: 63429-28-7 EC: 264-140-6	BOD5	Non-applicable	Concentration	2 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	77 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	BCF	6
	Pow Log	1.36
	Potential	Low
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	
	Pow Log	2.97
	Potential	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	BCF	8
	Pow Log	1.96
	Potential	Low
Geraniol CAS: 106-24-1 EC: 203-377-1	BCF	110
	Pow Log	3.56
	Potential	High
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	BCF	174
	Pow Log	3.9
	Potential	High
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	BCF	586
	Pow Log	4.7
	Potential	High

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
	BCF	Pow Log
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	102	3.05
(E)-2-methoxy-4-(prop-1-enyl)phenol CAS: 5932-68-3 EC: 227-678-2	High	2.1
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol CAS: 5502-75-0 EC: 939-719-8	82	3.55
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	Moderate	1584
Eugenol CAS: 97-53-0 EC: 202-589-1	5.9	31
(1R,5S)-2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate CAS: 35836-72-7 EC: 800-940-9	Very High	4.24
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	High	1365
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Very High	5.1
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	3.49	1.45
musk ketone CAS: 81-14-1 EC: 201-328-9	1380	4.3
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	Very High	1.85

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
	Koc	Surface tension	Henry	Non-applicable
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	Non-applicable	3,807E-2 N/m (25 °C)	Henry	Non-applicable
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0 EC: 405-040-6	42	Non-applicable	Dry soil	1,71E-3 Pa·m ³ /mol
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	Very High	3,558E-2 N/m (25 °C)	Moist soil	No
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	Non-applicable	Non-applicable	Dry soil	177 Pa·m ³ /mol
Heptanal, 2-(phenylmethylene)-, (2E)- CAS: 78605-96-6 EC: 800-696-3	518	Non-applicable	Moist soil	Yes
	8000	Non-applicable	Dry soil	Non-applicable
	Immobil	Non-applicable	Moist soil	Non-applicable

- CONTINUED ON NEXT PAGE -



Lily & Jasmine

Printing: 17/08/2023 Date of compilation: 17/08/2023 Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
Reaction mass of cis-4-(isopropyl)cyclohexanemethanol and trans-4-(isopropyl)cyclohexanemethanol CAS: 5502-75-0 EC: 939-719-8	Koc	569	Henry	Non-applicable
	Conclusion	Moderate	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Koc	8183	Henry	3,42E-1 Pa·m ³ /mol
	Conclusion		Dry soil	Yes
	Surface tension	1,255E-2 N/m (258,85 °C)	Moist soil	Yes
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	Koc	3061.96	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Cinnamyl alcohol CAS: 104-54-1 EC: 203-212-3	Koc	116.94	Henry	Non-applicable
	Conclusion	High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
musk ketone CAS: 81-14-1 EC: 201-328-9	Koc	8700	Henry	1,925E-4 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	No
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8 EC: 266-803-5	Koc	80	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to 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	Dangerous

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

HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage

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-dangerous 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 2021 and RID 2021:

- CONTINUED ON NEXT PAGE -



Printing: 17/08/2023

Date of compilation: 17/08/2023

Version: 1

SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number or ID number:** UN3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((E)-2-benzylideneoctanal)
14.3 Transport hazard class(es): 9
 Labels: 9
14.4 Packing group: III
14.5 Environmental hazards: Yes
14.6 Special precautions for user
 Special regulations: 274, 335, 375, 601
 Tunnel restriction code: -
 Physico-Chemical properties: see section 9
 Limited quantities: 5 L
14.7 Maritime transport in bulk according to IMO instruments: Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:



- 14.1 UN number or ID number:** UN3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((E)-2-benzylideneoctanal)
14.3 Transport hazard class(es): 9
 Labels: 9
14.4 Packing group: III
14.5 Marine pollutant: Yes
14.6 Special precautions for user
 Special regulations: 335, 969, 274
 EmS Codes: F-A, S-F
 Physico-Chemical properties: see section 9
 Limited quantities: 5 L
 Segregation group: Non-applicable
14.7 Maritime transport in bulk according to IMO instruments: Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



- 14.1 UN number or ID number:** UN3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((E)-2-benzylideneoctanal)
14.3 Transport hazard class(es): 9
 Labels: 9
14.4 Packing group: III
14.5 Environmental hazards: Yes
14.6 Special precautions for user
 Physico-Chemical properties: see section 9
14.7 Maritime transport in bulk according to IMO instruments: Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Geraniol (Product-type 18, 19)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

- CONTINUED ON NEXT PAGE -



SECTION 15: REGULATORY INFORMATION (continued)

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS	200	500

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.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

- H317: May cause an allergic skin reaction.
- H411: Toxic to aquatic life with long lasting effects.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

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. 2: H330 - Fatal if inhaled.
- Acute Tox. 4: H302 - Harmful if swallowed.
- Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
- 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.
- Carc. 2: H351 - Suspected of causing cancer.
- Eye Dam. 1: H318 - Causes serious eye damage.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Repr. 2: H361f - Suspected of damaging fertility.
- Repr. 2: H361fd - Suspected of damaging 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: H335 - May cause respiratory irritation.

Classification procedure:

- CONTINUED ON NEXT PAGE -



SECTION 16: OTHER INFORMATION (continued)

Skin Sens. 1A: Calculation method
Aquatic Chronic 2: Calculation method
Skin Irrit. 2: Calculation method
Eye Irrit. 2: Calculation method

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

Other information:

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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 -