



## MY15-A055-18 Ocean - Outdoor Breeze

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

- 1.1 Product identifier:** MY15-A055-18 Ocean-Outdoor Breeze
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Fragrance  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the Product:**  
MEIYI Flavor Fragrance CO.,LTD  
Phone.: 86-0512-50128983  
Email: meiyi\_xj@163.com
- Details of the supplier of the safety data sheet:**  
KRACO CAR CARE INTERNATIONAL LIMITED  
4 Ambassador Place, Stockport Road  
Altrincham, WA15 8DB, UK  
Phone: +44 (0) 161 927 7000  
Email: KCCI-orders@Kraco.co.uk
- 1.4 Emergency telephone number:** 86-0512-50128983 (08:00-17:30, Monday to Friday)  
+44 (0) 161 927 7000 (09:00-17:00, Monday to Friday)

### 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. 1B: Sensitisation, skin, Category 1B, 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. 1B: 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  
P264: Wash thoroughly after handling  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment
- Supplementary information:**  
Contains 2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra, Citral, Coumarin, d-limonene, Geraniol, Linalyl acetate
- Substances that contribute to the classification**  
Linalool; Citronellol; Hexyl cinnam-aldehyde; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Perfume/s

**Components:**

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




Identification	Chemical name/Classification	Concentration
CAS: 18479-58-8 EC: 242-362-4 Index: Non-applicable REACH: 01-2119457274-37-XXXX	<b>2,6-dimethyloct-7-en-2-ol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	5 - <10 %
CAS: 151-05-3 EC: 205-781-3 Index: Non-applicable REACH: 01-2120258394-51-XXXX	<b>a,a-dimethylphenethyl acetate<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412	5 - <10 %
CAS: 14901-07-6 EC: 238-969-9 Index: Non-applicable REACH: 01-2119937833-30-XXXX	<b>4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411	1 - <5 %
CAS: 60-12-8 EC: 200-456-2 Index: Non-applicable REACH: 01-2119963921-31-XXXX	<b>2-phenylethanol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	1 - <5 %
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	<b>Linalool<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 106-22-9 EC: 203-375-0 Index: Non-applicable REACH: 01-2119453995-23-XXXX	<b>Citronellol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 101-86-0 EC: 202-983-3 Index: Non-applicable REACH: Non-applicable	<b>Hexyl cinnam-aldehyde<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 115-95-7 EC: 204-116-4 Index: Non-applicable REACH: 01-2119454789-19-XXXX	<b>Linalyl acetate<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	1 - <5 %
CAS: 80-26-2 EC: 201-265-7 Index: Non-applicable REACH: 01-2119980733-29-XXXX	<b>P-menth-1-en-8-yl acetate<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411	1 - <5 %
CAS: 5989-27-5 EC: 227-813-5 Index: 601-029-00-7 REACH: 01-2119529223-47-XXXX	<b>d-limonene<sup>(1)</sup></b> ATP CLP00 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	1 - <5 %
CAS: 54464-57-2 EC: 259-174-3 Index: Non-applicable REACH: Non-applicable	<b>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 80-54-6 EC: 201-289-8 Index: Non-applicable REACH: 01-2119907954-30-XXXX	<b>2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Repr. 2: H361; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <5 %
CAS: 106-24-1 EC: 203-377-1 Index: Non-applicable REACH: 01-2119552430-49-XXXX	<b>Geraniol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	1 - <5 %

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Identification	Chemical name/Classification		Concentration
CAS: 5392-40-5 EC: 226-394-6 Index: 605-019-00-3 REACH: 01-2119462829-23-XXXX	<b>Citral<sup>(1)</sup></b>	ATP CLP00	<b>1 - &lt;5 %</b>
	Regulation 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning 	
CAS: 91-64-5 EC: 202-086-7 Index: Non-applicable REACH: 01-2119943756-26-XXXX	<b>Coumarin<sup>(1)</sup></b>	Self-classified	<b>&lt;1 %</b>
	Regulation 1272/2008	Acute Tox. 3: H301+H311+H331; Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Danger  	

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

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

**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**

**5.1 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. IT IS NOT RECOMMENDED 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:**

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### SECTION 5: FIREFIGHTING MEASURES (continued)

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:

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. Destroy 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.

#### 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.- Precautions for safe manipulation

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

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. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

##### C.- Technical recommendations to prevent ergonomic and toxicological risks

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

Store in a cool, dry, well-ventilated location

##### 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 (EH40/2005 Workplace exposure limits):

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

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

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	20.8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	73.5 mg/m <sup>3</sup>	Non-applicable
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one CAS: 14901-07-6 EC: 238-969-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2.191252632 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2.498028 mg/m <sup>3</sup>	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	5 mg/kg	Non-applicable	2.5 mg/kg	Non-applicable
	Inhalation	16.5 mg/m <sup>3</sup>	Non-applicable	2.8 mg/m <sup>3</sup>	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 <sup>3</sup>	161.6 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
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 <sup>3</sup>	Non-applicable
d-limonene CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33.3 mg/m <sup>3</sup>	Non-applicable
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra CAS: 80-54-6 EC: 201-289-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	20 mg/kg	Non-applicable	3.33 mg/kg	Non-applicable
	Inhalation	0.29 mg/m <sup>3</sup>	0.29 mg/m <sup>3</sup>	0.048 mg/m <sup>3</sup>	0.048 mg/m <sup>3</sup>
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	8.3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	29.4 mg/m <sup>3</sup>	Non-applicable
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1.7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m <sup>3</sup>	Non-applicable
Coumarin CAS: 91-64-5 EC: 202-086-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0.84 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0.741 mg/m <sup>3</sup>	Non-applicable

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	Oral	Non-applicable	Non-applicable	12.5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	12.5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	21.7 mg/m <sup>3</sup>	Non-applicable
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one CAS: 14901-07-6 EC: 238-969-9	Oral	Non-applicable	Non-applicable	4.382505263 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0.540347826 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0.6214 mg/m <sup>3</sup>	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	1.2 mg/kg	Non-applicable	0.2 mg/kg	Non-applicable
	Dermal	2.5 mg/kg	Non-applicable	1.25 mg/kg	Non-applicable
	Inhalation	4.1 mg/m <sup>3</sup>	Non-applicable	0.7 mg/m <sup>3</sup>	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 <sup>3</sup>	47.8 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
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 <sup>3</sup>	Non-applicable

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
d-limonene CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	4.76 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8.33 mg/m <sup>3</sup>	Non-applicable
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra CAS: 80-54-6 EC: 201-289-8	Oral	0.041 mg/kg	Non-applicable	0.007 mg/kg	Non-applicable
	Dermal	20 mg/kg	Non-applicable	1.67 mg/kg	Non-applicable
	Inhalation	0.07 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	0.012 mg/m <sup>3</sup>	0.012 mg/m <sup>3</sup>
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	2.5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8.7 mg/m <sup>3</sup>	Non-applicable
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Non-applicable	Non-applicable	0.6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2.7 mg/m <sup>3</sup>	Non-applicable
Coumarin CAS: 91-64-5 EC: 202-086-7	Oral	Non-applicable	Non-applicable	0.42 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0.42 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0.183 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification					
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	STP	10 mg/L	Fresh water	0.0278 mg/L	
	Soil	0.103 mg/kg	Marine water	0.00278 mg/L	
	Intermittent	0.278 mg/L	Sediment (Fresh water)	0.594 mg/kg	
	Oral	111 g/kg	Sediment (Marine water)	0.0594 mg/kg	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one CAS: 14901-07-6 EC: 238-969-9	STP	0.0428 mg/L	Fresh water	0.00146 mg/L	
	Soil	10.46619104 mg/kg	Marine water	0.000146 mg/L	
	Intermittent	0.0146 mg/L	Sediment (Fresh water)	22.45122592 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	22.45122592 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	7.8 g/kg	Sediment (Marine water)	0.222 mg/kg	
Citronellol CAS: 106-22-9 EC: 203-375-0	STP	580 mg/L	Fresh water	0.0024 mg/L	
	Soil	0.00371 mg/kg	Marine water	0.00024 mg/L	
	Intermittent	0.024 mg/L	Sediment (Fresh water)	0.0256 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0.00256 mg/kg	
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	STP	10 mg/L	Fresh water	0.011 mg/L	
	Soil	0.115 mg/kg	Marine water	0.0011 mg/L	
	Intermittent	0.11 mg/L	Sediment (Fresh water)	0.609 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0.0609 mg/kg	
P-menth-1-en-8-yl acetate CAS: 80-26-2 EC: 201-265-7	STP	10 mg/L	Fresh water	0.0069 mg/L	
	Soil	0.0865 mg/kg	Marine water	0.00069 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	0.453 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0.0453 mg/kg	
d-limonene CAS: 5989-27-5 EC: 227-813-5	STP	1.8 mg/L	Fresh water	0.0054 mg/L	
	Soil	0.262 mg/kg	Marine water	0.00054 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	1.32 mg/kg	
	Oral	3.33 g/kg	Sediment (Marine water)	0.13 mg/kg	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra CAS: 80-54-6 EC: 201-289-8	STP	1.049 mg/L	Fresh water	0.00204 mg/L	
	Soil	0.0463 mg/kg	Marine water	0.00024 mg/L	
	Intermittent	0.0204 mg/L	Sediment (Fresh water)	0.0584 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0.00584 mg/kg	

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification				
Geraniol CAS: 106-24-1 EC: 203-377-1	STP	0.7 mg/L	Fresh water	0.0108 mg/L
	Soil	0.0167 mg/kg	Marine water	0.00108 mg/L
	Intermittent	0.108 mg/L	Sediment (Fresh water)	0.115 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.0115 mg/kg
Citral CAS: 5392-40-5 EC: 226-394-6	STP	1.6 mg/L	Fresh water	0.00678 mg/L
	Soil	0.0209 mg/kg	Marine water	0.000678 mg/L
	Intermittent	0.0678 mg/L	Sediment (Fresh water)	0.125 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.0125 mg/kg
Coumarin CAS: 91-64-5 EC: 202-086-7	STP	10 mg/L	Fresh water	0.0056 mg/L
	Soil	0.0217 mg/kg	Marine water	0.00056 mg/L
	Intermittent	0.056 mg/L	Sediment (Fresh water)	0.207 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.0207 mg/kg

**8.2 Exposure controls:**

**A.- General security and hygiene measures in the work place**



As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. 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 420:2003+A1:2009 and EN ISO 374-1:2016

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

**D.- Ocular and facial protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 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



**F.- Additional emergency measures**

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**MY15-A055-18 Ocean**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

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):	21.19 % weight
V.O.C. density at 20 °C:	Non-applicable
Average carbon number:	10.4
Average molecular weight:	159.89 g/mol

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

**Appearance:**

Physical state at 20 °C:	Liquid
Appearance:	Characteristic
Colour:	Characteristic
Odour:	Characteristic
Odour threshold:	Non-applicable *

**Volatility:**

Boiling point at atmospheric pressure:	Non-applicable *
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:	Non-applicable *
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 *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

**Flammability:**

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

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**MY15-A055-18 Ocean**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Flash Point:	87 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

**Explosive:**

Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

**9.2 Other information:**

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 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:**

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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

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

B- Inhalation (acute effect):

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**MY15-A055-18 Ocean**

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous 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 dangerous for this effect. 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, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.  
IARC: Coumarin (3); d-limonene (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous 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 dangerous 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 dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: 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, as it does not contain substances classified as dangerous for this effect. 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 dangerous 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 dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:
 

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

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	293 mg/kg	Rat
	LD50 dermal	293 mg/kg (ATEi)	Rat
	LC50 inhalation	3 mg/L (4 h) (ATEi)	
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8 EC: 242-362-4	LD50 oral	3600 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L (4 h)	
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 (4 h)	
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 (4 h)	
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 (4 h)	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L (4 h)	

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**MY15-A055-18 Ocean**

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

Identification	Acute toxicity		Genus
Hexyl cinnam-aldehyde	LD50 oral	3100 mg/kg	Rat
CAS: 101-86-0	LD50 dermal	3000 mg/kg	Rabbit
EC: 202-983-3	LC50 inhalation	>20 mg/L (4 h)	
Linalyl acetate	LD50 oral	14500 mg/kg	Rat
CAS: 115-95-7	LD50 dermal	5610 mg/kg	Rabbit
EC: 204-116-4	LC50 inhalation	>20 mg/L (4 h)	
P-menth-1-en-8-yl acetate	LD50 oral	5075 mg/kg	Rat
CAS: 80-26-2	LD50 dermal	>2000 mg/kg	
EC: 201-265-7	LC50 inhalation	>20 mg/L (4 h)	
d-limonene	LD50 oral	4400 mg/kg	Rat
CAS: 5989-27-5	LD50 dermal	5100 mg/kg	Rabbit
EC: 227-813-5	LC50 inhalation	>20 mg/L (4 h)	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	LD50 oral	>2000 mg/kg	
CAS: 14901-07-6	LD50 dermal	>2000 mg/kg	
EC: 238-969-9	LC50 inhalation	>20 mg/L (4 h)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LD50 oral	>2000 mg/kg	
CAS: 54464-57-2	LD50 dermal	>2000 mg/kg	
EC: 259-174-3	LC50 inhalation	>20 mg/L (4 h)	
Geraniol	LD50 oral	4200 mg/kg	Rat
CAS: 106-24-1	LD50 dermal	5100 mg/kg	Rabbit
EC: 203-377-1	LC50 inhalation	>20 mg/L (4 h)	
Citral	LD50 oral	4950 mg/kg	Rat
CAS: 5392-40-5	LD50 dermal	2250 mg/kg	Rabbit
EC: 226-394-6	LC50 inhalation	>20 mg/L (4 h)	
a,a-dimethylphenethyl acetate	LD50 oral	3300 mg/kg	Rat
CAS: 151-05-3	LD50 dermal	>2000 mg/kg	
EC: 205-781-3	LC50 inhalation	>20 mg/L (4 h)	

**Acute Toxicity Estimate (ATE mix):**

ATE mix		Ingredient(s) of unknown toxicity
Oral	13655.76 mg/kg (Calculation method)	0 %
Dermal	34572.27 mg/kg (Calculation method)	0 %
Inhalation	353.98 mg/L (4 h) (Calculation method)	0 %

**SECTION 12: ECOLOGICAL INFORMATION**

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

**12.1 Toxicity:**

Identification	Acute toxicity		Species	Genus
a,a-dimethylphenethyl acetate	LC50	10 - 100 mg/L (96 h)		Fish
CAS: 151-05-3	EC50	10 - 100 mg/L		Crustacean
EC: 205-781-3	EC50	10 - 100 mg/L		Algae
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 14901-07-6	EC50	1 - 10 mg/L		Crustacean
EC: 238-969-9	EC50	1 - 10 mg/L		Algae
2-phenylethanol	LC50	Non-applicable		
CAS: 60-12-8	EC50	330 mg/L (24 h)	Daphnia magna	Crustacean
EC: 200-456-2	EC50	490 mg/L (72 h)	Scenedesmus subspicatus	Algae
Linalool	LC50	27.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 78-70-6	EC50	59 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-134-4	EC50	88.3 mg/L (96 h)	Scenedesmus subspicatus	Algae

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Acute toxicity	Species	Genus
Hexyl cinnam-aldehyde	LC50 0.1 - 1 mg/L (96 h)		Fish
CAS: 101-86-0	EC50 0.1 - 1 mg/L		Crustacean
EC: 202-983-3	EC50 0.1 - 1 mg/L		Algae
Linalyl acetate	LC50 11 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 115-95-7	EC50 15 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-116-4	EC50 62 mg/L (72 h)	Desmodesmus subspicatus	Algae
P-menth-1-en-8-yl acetate	LC50 11 mg/L (96 h)	Pimephales promelas	Fish
CAS: 80-26-2	EC50 10 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-265-7	EC50 8 mg/L (72 h)	Desmodesmus subspicatus	Algae
d-limonene	LC50 0.702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50 0.577 mg/L (48 h)	Daphnia magna	Crustacean
EC: 227-813-5	EC50 Non-applicable		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LC50 0.1 - 1 mg/L (96 h)		Fish
CAS: 54464-57-2	EC50 0.1 - 1 mg/L		Crustacean
EC: 259-174-3	EC50 0.1 - 1 mg/L		Algae
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra	LC50 2 mg/L (96 h)	Danio rerio	Fish
CAS: 80-54-6	EC50 11 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-289-8	EC50 29 mg/L (72 h)	Desmodesmus subspicatus	Algae
Citral	LC50 6.1 mg/L (24 h)	Oryzias latipes	Fish
CAS: 5392-40-5	EC50 11 mg/L (24 h)	Daphnia magna	Crustacean
EC: 226-394-6	EC50 16 mg/L (72 h)	Scenedesmus subspicatus	Algae
Coumarin	LC50 1.3 mg/L (96 h)	QSAR	Fish
CAS: 91-64-5	EC50 8 mg/L (48 h)	QSAR	Fish
EC: 202-086-7	EC50 1.4 mg/L (96 h)	QSAR	Fish

**12.2 Persistence and degradability:**

Identification	Degradability	Biodegradability
2,6-dimethyloct-7-en-2-ol	BOD5 Non-applicable	Concentration 10 mg/L
CAS: 18479-58-8	COD Non-applicable	Period 28 days
EC: 242-362-4	BOD5/COD Non-applicable	% Biodegradable 72 %
2-phenylethanol	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 60-12-8	COD Non-applicable	Period 14 days
EC: 200-456-2	BOD5/COD Non-applicable	% Biodegradable 87 %
Linalool	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 78-70-6	COD Non-applicable	Period 28 days
EC: 201-134-4	BOD5/COD 0.55	% Biodegradable 90 %
Linalyl acetate	BOD5 Non-applicable	Concentration 81 mg/L
CAS: 115-95-7	COD Non-applicable	Period 28 days
EC: 204-116-4	BOD5/COD Non-applicable	% Biodegradable 80 %
P-menth-1-en-8-yl acetate	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 80-26-2	COD Non-applicable	Period 28 days
EC: 201-265-7	BOD5/COD Non-applicable	% Biodegradable 60 %
d-limonene	BOD5 Non-applicable	Concentration Non-applicable
CAS: 5989-27-5	COD Non-applicable	Period 28 days
EC: 227-813-5	BOD5/COD Non-applicable	% Biodegradable 100 %
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra	BOD5 Non-applicable	Concentration 20 mg/L
CAS: 80-54-6	COD Non-applicable	Period 28 days
EC: 201-289-8	BOD5/COD Non-applicable	% Biodegradable 81 %
Geraniol	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 106-24-1	COD Non-applicable	Period 21 days
EC: 203-377-1	BOD5/COD Non-applicable	% Biodegradable 70 %
Citral	BOD5 0.56 g O2/g	Concentration 100 mg/L
CAS: 5392-40-5	COD 1.99 g O2/g	Period 28 days
EC: 226-394-6	BOD5/COD 0.28	% Biodegradable 92 %

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Degradability		Biodegradability	
Coumarin	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 91-64-5	COD	Non-applicable	Period	28 days
EC: 202-086-7	BOD5/COD	Non-applicable	% Biodegradable	100 %

**12.3 Bioaccumulative potential:**

Identification	Bioaccumulation potential	
2-phenylethanol	BCF	6
CAS: 60-12-8	Pow Log	1.36
EC: 200-456-2	Potential	Low
Linalool	BCF	39
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	Moderate
Hexyl cinnam-aldehyde	BCF	17
CAS: 101-86-0	Pow Log	
EC: 202-983-3	Potential	Low
Linalyl acetate	BCF	174
CAS: 115-95-7	Pow Log	3.9
EC: 204-116-4	Potential	High
d-limonene	BCF	660
CAS: 5989-27-5	Pow Log	4.83
EC: 227-813-5	Potential	High
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral extra	BCF	275
CAS: 80-54-6	Pow Log	4.2
EC: 201-289-8	Potential	High
Geraniol	BCF	110
CAS: 106-24-1	Pow Log	3.56
EC: 203-377-1	Potential	High
Citral	BCF	10
CAS: 5392-40-5	Pow Log	3.45
EC: 226-394-6	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Koc	Non-applicable	Henry	Non-applicable
CAS: 14901-07-6	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 238-969-9	Surface tension	3.952E-2 N/m (20 °C)	Moist soil	Non-applicable
2-phenylethanol	Koc	Non-applicable	Henry	Non-applicable
CAS: 60-12-8	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 200-456-2	Surface tension	3.807E-2 N/m (25 °C)	Moist soil	Non-applicable
Linalyl acetate	Koc	518	Henry	177 Pa·m <sup>3</sup> /mol
CAS: 115-95-7	Conclusion	Low	Dry soil	Yes
EC: 204-116-4	Surface tension	Non-applicable	Moist soil	Yes
P-menth-1-en-8-yl acetate	Koc	620	Henry	Non-applicable
CAS: 80-26-2	Conclusion	Low	Dry soil	Non-applicable
EC: 201-265-7	Surface tension	Non-applicable	Moist soil	Non-applicable
d-limonene	Koc	6324	Henry	2533.13 Pa·m <sup>3</sup> /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 extra	Koc	1285	Henry	2.52 Pa·m <sup>3</sup> /mol
CAS: 80-54-6	Conclusion	Low	Dry soil	Yes
EC: 201-289-8	Surface tension	Non-applicable	Moist soil	Yes

**12.5 Results of PBT and vPvB assessment:**

Product fails to meet PBT/vPvB criteria

**12.6 Other adverse effects:**

- CONTINUED ON NEXT PAGE -

**MY15-A055-18 Ocean**

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	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, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) 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. We do not recommended disposal down the drain. 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 2019 and RID 2019:



- 14.1 UN number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one)
- 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: Non-applicable
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 38-16:

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**MY15-A055-18 Ocean**

**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number:** UN3082  
**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one)  
**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: 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 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2020:



- 14.1 UN number:** UN3082  
**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one)  
**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 Transport in bulk according to Annex II of Marpol and the IBC Code:** 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

**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:**

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**SECTION 15: REGULATORY INFORMATION (continued)**

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
EH40/2005 Workplace exposure limits  
The Waste Regulations 2011, 2011 No. 988

**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:**

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 (Regulation (EC) No 2015/830)

**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

H315: Causes skin irritation

H411: Toxic to aquatic life with long lasting effects

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. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

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

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: H361 - Suspected of damaging fertility or the unborn child

Skin Irrit. 2: H315 - Causes skin irritation

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

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

**Classification procedure:**

Skin Sens. 1B: Calculation method

Skin Irrit. 2: Calculation method

Aquatic Chronic 2: Calculation method

Eye Irrit. 2: Calculation method

**Advice related to training:**

Minimal 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:**

**MY15-A055-18 Ocean**

**SECTION 16: OTHER INFORMATION (continued)**

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: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon

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 -