


## FRA-212 - JUNGLE MONKEY

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

- 1.1 Product identifier:** FRA-212 - JUNGLE MONKEY
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Product fragrance mixture  
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:**  
Fleurs d'Arômes - Sandra Aris  
3A, Avenue Berton  
7333 Tertre - Hainaut - Belgique  
Phone.: 0032479433347  
fleursdaromes@hotmail.com  
<https://www.fleursdaromes.be/>
- 1.4 Emergency telephone number:** Centre antipoisons: 070/245.245

### 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.  
Acute Tox. 4: Acute toxicity, Category 4, H302+H332  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Flam. Liq. 3: Flammable liquids, Category 3, H226  
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
**Warning**  
  
**Hazard statements:**  
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Skin Sens. 1A: H317 - May cause an allergic skin reaction  
**Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand  
P102: Keep out of reach of children  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
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  
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish  
P501: Dispose of contents/container according to the separated collection system used in your municipality  
**Supplementary information:**  
Contains (r)-p-mentha-1,8-diene, 2-tert-butylcyclohexyl acetate, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate, 3-methylbutyl butyrate, 3-p-cumenyl-2-methylpropionaldehyde, 4-tert-butylcyclohexyl acetate, Acetyl isoeugenol, Amyl cinnamal, Benzyl salicylate, Cinnamal, Coumarin, Decan-4-olide, Ethyl 2,3-epoxy-3-phenylbutyrate, Methyl cinnamate, Piperonal  
**Acute Toxicity Estimate (ATE mix):**  
54,96 % (oral), 81,84 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity  
**UFI:** EM90-T0VH-300V-W53W
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria

## FRA-212 - JUNGLE MONKEY

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

#### 3.1 Substance:
























Non-applicable

#### 3.2 Mixture:

**Chemical description:** Mixture of substances

#### Components:

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

Identification	Chemical name/Classification		Concentration
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Not a hazardous substance<sup>(1)</sup></b>	Not classified	10 - <25 %
	Regulation 1272/2008		
CAS: 100-51-6 EC: 202-859-9 Index: 603-057-00-5 REACH: 01-2119492630-38-XXXX	<b>benzyl alcohol<sup>(1)</sup></b>	Self-classified	10 - <25 %
	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319 - Warning 	
CAS: 122-40-7 EC: 204-541-5 Index: Non-applicable REACH: 01-2120740487-49-XXXX	<b>Amyl cinnamal<sup>(1)</sup></b>	Self-classified	5 - <10 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning  	
CAS: 5989-27-5 EC: 227-813-5 Index: Non-applicable REACH: 01-2119529223-47-XXXX	<b>(r)-p-mentha-1,8-diene<sup>(1)</sup></b>	Self-classified	2,5 - <5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger    	
CAS: 32210-23-4 EC: 250-954-9 Index: Non-applicable REACH: 01-2119976286-24-XXXX	<b>4-tert-butylcyclohexyl acetate<sup>(1)</sup></b>	Self-classified	2,5 - <5 %
	Regulation 1272/2008	Skin Sens. 1B: H317 - Warning 	
CAS: 54830-99-8 EC: 259-367-2 Index: Non-applicable REACH: 01-2119488219-26-XXXX	<b>3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate<sup>(1)</sup></b>	Self-classified	2,5 - <5 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning  	
CAS: 106-27-4 EC: 203-380-8 Index: Non-applicable REACH: 01-2120762245-55-XXXX	<b>3-methylbutyl butyrate<sup>(1)</sup></b>	Self-classified	2,5 - <5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Flam. Liq. 3: H226; Skin Sens. 1: H317 - Warning   	
CAS: 118-58-1 EC: 204-262-9 Index: Non-applicable REACH: 01-2119969442-31-XXXX	<b>Benzyl salicylate<sup>(1)</sup></b>	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Acute Tox. 4: H332; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Sens. 1B: H317; STOT SE 2: H371 - Warning  	
CAS: 91-64-5 EC: 202-086-7 Index: Non-applicable REACH: 01-2119949300-45-XXXX	<b>Coumarin<sup>(1)</sup></b>	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning 	
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	1 - <2,5 %
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning 	
CAS: 77-83-8 EC: 201-061-8 Index: Non-applicable REACH: 01-211997770-28-XXXX	<b>Ethyl 2,3-epoxy-3-phenylbutyrate<sup>(1)</sup></b>	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning  	
CAS: 111-87-5 EC: 203-917-6 Index: Non-applicable REACH: 01-2119486978-10-XXXX	<b>Octan-1-ol<sup>(1)</sup></b>	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Warning 	
CAS: 103-95-7 EC: 203-161-7 Index: Non-applicable REACH: 01-2119970582-32-XXXX	<b>3-p-cumenyl-2-methylpropionaldehyde<sup>(1)</sup></b>	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning   	

<sup>(1)</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

**FRA-212 - JUNGLE MONKEY**

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

Identification	Chemical name/Classification	Concentration
CAS: 2050-08-0 EC: 218-080-2 Index: Non-applicable REACH: 01-2120771342-58-XXXX	<b>Pentyl salicylate<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	1 - <2,5 %
CAS: 88-41-5 EC: 201-828-7 Index: Non-applicable REACH: Non-applicable	<b>2-tert-butylcyclohexyl acetate<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Flam. Liq. 3: H226; Skin Sens. 1: H317 - Warning	1 - <2,5 %
CAS: 93-29-8 EC: 202-236-1 Index: Non-applicable REACH: Non-applicable	<b>Acetyl isoeugenol<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Skin Sens. 1: H317 - Warning	<1 %
CAS: 120-57-0 EC: 204-409-7 Index: Non-applicable REACH: 01-2119983608-21-XXXX	<b>Piperonal<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H332; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	<1 %
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH: 01-2119488227-29-XXXX	<b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran<sup>(1)</sup></b> ATP ATP01 Regulation 1272/2008 Acute Tox. 4: H312; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	<1 %
CAS: 104-55-2 EC: 203-213-9 Index: Non-applicable REACH: 01-2119935242-45-XXXX	<b>Cinnamal<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H312+H332; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	<1 %
CAS: 127-51-5 EC: 204-846-3 Index: Non-applicable REACH: 01-2120138569-45-XXXX	<b>3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411	<1 %
CAS: 103-26-4 EC: 203-093-8 Index: Non-applicable REACH: 01-2119979458-16-XXXX	<b>Methyl cinnamate<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Acute Tox. 4: H332; Skin Sens. 1B: H317 - Warning	<1 %
CAS: 706-14-9 EC: 211-892-8 Index: Non-applicable REACH: 01-2119959334-32-XXXX	<b>Decan-4-olide<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Skin Sens. 1: H317 - Warning	<1 %
CAS: 124-13-0 EC: 204-683-8 Index: Non-applicable REACH: 01-2119638274-38-XXXX	<b>Octanal<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning	<1 %
CAS: 469-61-4 EC: 207-418-4 Index: Non-applicable REACH: Non-applicable	<b>Alpha-cedrene<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304 - Danger	<1 %
CAS: 123-35-3 EC: 204-622-5 Index: Non-applicable REACH: 01-2119514321-56-XXXX	<b>7-methyl-3-methyleneocta-1,6-diene<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Danger	<1 %
CAS: 87-44-5 EC: 201-746-1 Index: Non-applicable REACH: 01-2120745237-53-XXXX	<b>Caryophyllene<sup>(1)</sup></b> Self-classified Regulation 1272/2008 Aquatic Chronic 4: H413; Asp. Tox. 1: H304 - Danger	<1 %

<sup>(1)</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

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

**Other information:**

Identification	M-factor
Alpha-cedrene	Acute 10
CAS: 469-61-4 EC: 207-418-4	Chronic 10

\*\* Changes with regards to the previous version

**SECTION 4: FIRST AID MEASURES**

- CONTINUED ON NEXT PAGE -

## FRA-212 - JUNGLE MONKEY

### SECTION 4: FIRST AID MEASURES (continued)

#### 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:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

##### 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:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

#### 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:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). 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:

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.

- CONTINUED ON NEXT PAGE -





**FRA-212 - JUNGLE MONKEY**

**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

**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**

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

**C.- Technical recommendations 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**

Minimum Temp.: 5 °C

Maximum time: 18 Months

**B.- General conditions for storage**

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

**7.3 Specific end use(s):**

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

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace

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

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	47 mg/kg	Non-applicable	9,5 mg/kg	Non-applicable
	Inhalation	450 mg/m <sup>3</sup>	Non-applicable	90 mg/m <sup>3</sup>	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	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33,3 mg/m <sup>3</sup>	Non-applicable
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,9 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,17 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	0,79 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,78 mg/m <sup>3</sup>	Non-applicable

- CONTINUED ON NEXT PAGE -

**FRA-212 - JUNGLE MONKEY**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,45 mg/m³	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/m³	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	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,5 mg/m³	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	28,85 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,29 mg/m³	Non-applicable
Cinnamal CAS: 104-55-2 EC: 203-213-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5125 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,203947368 mg/m³	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/m³	Non-applicable
Decan-4-olide CAS: 706-14-9 EC: 211-892-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,97 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	17,5 mg/m³	Non-applicable
Octanal CAS: 124-13-0 EC: 204-683-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,37 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,3 mg/m³	Non-applicable
7-methyl-3-methyleneocta-1,6-diene CAS: 123-35-3 EC: 204-622-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,83 mg/m³	Non-applicable

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	25 mg/kg	Non-applicable	5 mg/kg	Non-applicable
	Dermal	28,5 mg/kg	Non-applicable	5,7 mg/kg	Non-applicable
	Inhalation	40,55 mg/m³	Non-applicable	8,11 mg/m³	Non-applicable
(r)-p-mentha-1,8-diene 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/m³	Non-applicable
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	Oral	Non-applicable	Non-applicable	0,45 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,45 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,78 mg/m³	Non-applicable
Coumarin CAS: 91-64-5 EC: 202-086-7	Oral	Non-applicable	Non-applicable	0,39 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,39 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,69 mg/m³	Non-applicable
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	Oral	Non-applicable	Non-applicable	0,35 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,35 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,61 mg/m³	Non-applicable
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/m³	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	0,75 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	14,43 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,3 mg/m³	Non-applicable

- CONTINUED ON NEXT PAGE -

**FRA-212 - JUNGLE MONKEY**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Cinnamal CAS: 104-55-2 EC: 203-213-9	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,625 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,543478261 mg/m <sup>3</sup>	Non-applicable
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 <sup>3</sup>	Non-applicable
Decan-4-olide CAS: 706-14-9 EC: 211-892-8	Oral	Non-applicable	Non-applicable	2,49 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,49 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,33 mg/m <sup>3</sup>	Non-applicable
Octanal CAS: 124-13-0 EC: 204-683-8	Oral	Non-applicable	Non-applicable	0,19 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,19 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,32 mg/m <sup>3</sup>	Non-applicable
7-methyl-3-methylenoocta-1,6-diene CAS: 123-35-3 EC: 204-622-5	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	1,25 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification					
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	STP	39 mg/L	Fresh water	1 mg/L	
	Soil	0,456 mg/kg	Marine water	0,1 mg/L	
	Intermittent	2,3 mg/L	Sediment (Fresh water)	5,27 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,527 mg/kg	
(r)-p-mentha-1,8-diene 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	
4-tert-butylcyclohexyl acetate CAS: 32210-23-4 EC: 250-954-9	STP	12,2 mg/L	Fresh water	0,0053 mg/L	
	Soil	0,42 mg/kg	Marine water	0,00053 mg/L	
	Intermittent	0,053 mg/L	Sediment (Fresh water)	2,01 mg/kg	
	Oral	66,67 g/kg	Sediment (Marine water)	0,21 mg/kg	
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	STP	10 mg/L	Fresh water	0,00103 mg/L	
	Soil	0,021 mg/kg	Marine water	0,000103 mg/L	
	Intermittent	0,0103 mg/L	Sediment (Fresh water)	0,584 mg/kg	
	Oral	80 g/kg	Sediment (Marine water)	0,0584 mg/kg	
Coumarin CAS: 91-64-5 EC: 202-086-7	STP	6,4 mg/L	Fresh water	0,019 mg/L	
	Soil	0,018 mg/kg	Marine water	0,0019 mg/L	
	Intermittent	0,0142 mg/L	Sediment (Fresh water)	0,15 mg/kg	
	Oral	30,7 g/kg	Sediment (Marine water)	0,015 mg/kg	
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	STP	10 mg/L	Fresh water	0,0084 mg/L	
	Soil	0,037 mg/kg	Marine water	0,0084 mg/L	
	Intermittent	0,084 mg/L	Sediment (Fresh water)	0,012 mg/kg	
	Oral	23,3 g/kg	Sediment (Marine water)	0,0012 mg/kg	
Octan-1-ol CAS: 111-87-5 EC: 203-917-6	STP	55,5 mg/L	Fresh water	0,2 mg/L	
	Soil	1,6 mg/kg	Marine water	0,02 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	2,1 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,21 mg/kg	
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	STP	1 mg/L	Fresh water	0,00109 mg/L	
	Soil	0,01936 mg/kg	Marine water	0,00011 mg/L	
	Intermittent	0,01092 mg/L	Sediment (Fresh water)	0,00598 mg/kg	
	Oral	33,3 g/kg	Sediment (Marine water)	0,0006 mg/kg	

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**FRA-212 - JUNGLE MONKEY**

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

Identification				
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
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	0,0044 mg/L
	Soil	0,31 mg/kg	Marine water	0,00044 mg/L
	Intermittent	0,047 mg/L	Sediment (Fresh water)	2 mg/kg
	Oral	3,3 g/kg	Sediment (Marine water)	0,394 mg/kg
Cinnamal CAS: 104-55-2 EC: 203-213-9	STP	13,119 mg/L	Fresh water	1,004 mg/L
	Soil	56,08472512 mg/kg	Marine water	0,1004 mg/L
	Intermittent	1,004 mg/L	Sediment (Fresh water)	159,1851438 mg/kg
	Oral	0,000333333 g/kg	Sediment (Marine water)	159,1851438 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
Decan-4-olide CAS: 706-14-9 EC: 211-892-8	STP	80 mg/L	Fresh water	0,0131 mg/L
	Soil	0,101 mg/kg	Marine water	0,00131 mg/L
	Intermittent	0,131 mg/L	Sediment (Fresh water)	0,491 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,049 mg/kg
Octanal CAS: 124-13-0 EC: 204-683-8	STP	3,16 mg/L	Fresh water	0,00154 mg/L
	Soil	0,01339 mg/kg	Marine water	0,000154 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	0,07146 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00715 mg/kg
7-methyl-3-methyleneocta-1,6-diene CAS: 123-35-3 EC: 204-622-5	STP	0,2 mg/L	Fresh water	0,008 mg/L
	Soil	1,015 mg/kg	Marine water	0,0008 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	5,022 mg/kg
	Oral	2,78 g/kg	Sediment (Marine water)	0,502 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**

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**FRA-212 - JUNGLE MONKEY**

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

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**

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):	6,92 % weight
V.O.C. density at 20 °C:	72,76 kg/m <sup>3</sup> (72,76 g/L)
Average carbon number:	9,53
Average molecular weight:	145,63 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:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *

**Volatility:**

Boiling point at atmospheric pressure:	247 °C
Vapour pressure at 20 °C:	32 Pa
Vapour pressure at 50 °C:	199,44 Pa (0,2 kPa)
Evaporation rate at 20 °C:	Non-applicable *

**Product description:**

Density at 20 °C:	1051,9 kg/m <sup>3</sup>
Relative density at 20 °C:	1,052
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 *

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

- CONTINUED ON NEXT PAGE -

**FRA-212 - JUNGLE MONKEY**

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

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 *
<b>Flammability:</b>	
Flash Point:	>60 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	250 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available
<b>Explosive:</b>	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
<b>9.2 Other information:</b>	
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	Risk of combustion	Avoid direct impact	Not applicable

**10.5 Incompatible materials:**

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

**10.6 Hazardous decomposition products:**

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

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**FRA-212 - JUNGLE MONKEY**

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

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

**B- Inhalation (acute effect):**

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- 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: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
- 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); 7-methyl-3-methylenoocta-1,6-diene (2B)
- 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, as it does not 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. However, it does contain substances which are classified as dangerous as a result of a single exposure. 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. However, it does 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
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal	2500 mg/kg (ATEi)	
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	LD50 oral	2200 mg/kg	Rat
	LD50 dermal	14150 mg/kg (ATEi)	Rabbit
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	LD50 oral	1610 mg/kg	Rat
	LD50 dermal	2100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Octan-1-ol CAS: 111-87-5 EC: 203-917-6	LD50 oral	18340 mg/kg	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**FRA-212 - JUNGLE MONKEY**

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

Identification	Acute toxicity		Genus
Amyl cinnamal CAS: 122-40-7 EC: 204-541-5	LD50 oral	3730 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
4-tert-butylcyclohexyl acetate CAS: 32210-23-4 EC: 250-954-9	LD50 oral	3370 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate CAS: 54830-99-8 EC: 259-367-2	LD50 oral	3000 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
3-methylbutyl butyrate CAS: 106-27-4 EC: 203-380-8	LD50 oral	5500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	LD50 oral	3810 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Pentyl salicylate CAS: 2050-08-0 EC: 218-080-2	LD50 oral	2000 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2-tert-butylcyclohexyl acetate CAS: 88-41-5 EC: 201-828-7	LD50 oral	4600 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Acetyl isoeugenol CAS: 93-29-8 EC: 202-236-1	LD50 oral	3450 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Piperonal CAS: 120-57-0 EC: 204-409-7	LD50 oral	2700 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Cinnamal CAS: 104-55-2 EC: 203-213-9	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	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	LD50 oral	5500 mg/kg	Rat
	LD50 dermal	5500 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Methyl cinnamate CAS: 103-26-4 EC: 203-093-8	LD50 oral	2610 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Octanal CAS: 124-13-0 EC: 204-683-8	LD50 oral	4617 mg/kg	Rat
	LD50 dermal	5207 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Caryophyllene CAS: 87-44-5 EC: 201-746-1	LD50 oral	5500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

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

ATE mix		Ingredient(s) of unknown toxicity
Oral	1409,53 mg/kg (Calculation method)	54,96 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	13,2 mg/L (4 h) (Calculation method)	81,84 %

\*\* Changes with regards to the previous version

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



**FRA-212 - JUNGLE MONKEY**

**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
Amyl cinnamal CAS: 122-40-7 EC: 204-541-5	LC50	0.1 - 1 mg/L (96 h)	Fish
	EC50	0.1 - 1 mg/L (48 h)	Crustacean
	EC50	0.1 - 1 mg/L	Algae
(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	Crustacean
	EC50	0.1 - 1 mg/L	Algae
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate CAS: 54830-99-8 EC: 259-367-2	LC50	0.1 - 1 mg/L (96 h)	Fish
	EC50	0.1 - 1 mg/L	Crustacean
	EC50	0.1 - 1 mg/L	Algae
3-methylbutyl butyrate CAS: 106-27-4 EC: 203-380-8	LC50	0.1 - 1 mg/L (96 h)	Fish
	EC50	0.1 - 1 mg/L (48 h)	Crustacean
	EC50	0.1 - 1 mg/L	Algae
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	LC50	10 - 100 mg/L (96 h)	Fish
	EC50	10 - 100 mg/L (48 h)	Crustacean
	EC50	10 - 100 mg/L (72 h)	Algae
Coumarin CAS: 91-64-5 EC: 202-086-7	LC50	Non-applicable	
	EC50	30 mg/L (48 h)	Daphnia magna Crustacean
	EC50	Non-applicable	
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
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	LC50	4.2 mg/L (96 h)	Oncorhynchus mykiss Fish
	EC50	52 mg/L (48 h)	Daphnia magna Crustacean
	EC50	36 mg/L (72 h)	Pseudokirchneriella subcapitata Algae
Octan-1-ol CAS: 111-87-5 EC: 203-917-6	LC50	13 mg/L (96 h)	Pimephales promelas Fish
	EC50	20 mg/L (48 h)	Daphnia magna Crustacean
	EC50	14 mg/L (72 h)	Pseudokirchneriella subcapitata Algae
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	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
Pentyl salicylate CAS: 2050-08-0 EC: 218-080-2	LC50	0.1 - 1 mg/L (96 h)	Fish
	EC50	0.1 - 1 mg/L	Crustacean
	EC50	0.1 - 1 mg/L	Algae
2-tert-butylcyclohexyl acetate CAS: 88-41-5 EC: 201-828-7	LC50	0.1 - 1 mg/L (96 h)	Fish
	EC50	0.1 - 1 mg/L	Crustacean
	EC50	0.1 - 1 mg/L	Algae
Piperonal CAS: 120-57-0 EC: 204-409-7	LC50	1 - 10 mg/L (96 h)	Fish
	EC50	1 - 10 mg/L	Crustacean
	EC50	1 - 10 mg/L	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	0.1 - 1 mg/L (96 h)	Fish
	EC50	0.1 - 1 mg/L	Crustacean
	EC50	0.1 - 1 mg/L	Algae
Cinnamal CAS: 104-55-2 EC: 203-213-9	LC50	1 - 10 mg/L (96 h)	Fish
	EC50	1 - 10 mg/L	Crustacean
	EC50	1 - 10 mg/L	Algae
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

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**FRA-212 - JUNGLE MONKEY**

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

Identification	Acute toxicity	Species	Genus
Octanal	LC50 13.5 mg/L (96 h)	Pimephales promelas	Fish
CAS: 124-13-0	EC50 1.54 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-683-8	EC50 4.5 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Alpha-cedrene	LC50 0.1 - 1 mg/L (96 h)		Fish
CAS: 469-61-4	EC50 0.1 - 1 mg/L		Crustacean
EC: 207-418-4	EC50 0.1 - 1 mg/L		Algae
7-methyl-3-methyleneocta-1,6-diene	LC50 0.1 - 1 mg/L (96 h)		Fish
CAS: 123-35-3	EC50 0.1 - 1 mg/L		Crustacean
EC: 204-622-5	EC50 0.1 - 1 mg/L		Algae

**12.2 Persistence and degradability:**

Identification	Degradability	Biodegradability
benzyl alcohol	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 100-51-6	COD Non-applicable	Period 14 days
EC: 202-859-9	BOD5/COD Non-applicable	% Biodegradable 94 %
Amyl cinnamal	BOD5 Non-applicable	Concentration 4 mg/L
CAS: 122-40-7	COD Non-applicable	Period 28 days
EC: 204-541-5	BOD5/COD Non-applicable	% Biodegradable 41,19 %
3-methylbutyl butyrate	BOD5 Non-applicable	Concentration 15.1 mg/L
CAS: 106-27-4	COD Non-applicable	Period 28 days
EC: 203-380-8	BOD5/COD Non-applicable	% Biodegradable 63 %
Benzyl salicylate	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 118-58-1	COD Non-applicable	Period 28 days
EC: 204-262-9	BOD5/COD Non-applicable	% Biodegradable 93 %
Coumarin	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 91-64-5	COD Non-applicable	Period 14 days
EC: 202-086-7	BOD5/COD Non-applicable	% Biodegradable 100 %
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 %
Ethyl 2,3-epoxy-3-phenylbutyrate	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 77-83-8	COD Non-applicable	Period 28 days
EC: 201-061-8	BOD5/COD Non-applicable	% Biodegradable 53 %
Octan-1-ol	BOD5 Non-applicable	Concentration 20 mg/L
CAS: 111-87-5	COD Non-applicable	Period 28 days
EC: 203-917-6	BOD5/COD Non-applicable	% Biodegradable 92 %
3-p-cumenyl-2-methylpropionaldehyde	BOD5 Non-applicable	Concentration Non-applicable
CAS: 103-95-7	COD Non-applicable	Period 28 days
EC: 203-161-7	BOD5/COD Non-applicable	% Biodegradable 65,5 %
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	BOD5 Non-applicable	Concentration 4 mg/L
CAS: 127-51-5	COD Non-applicable	Period 28 days
EC: 204-846-3	BOD5/COD Non-applicable	% Biodegradable 42,51 %
Octanal	BOD5 Non-applicable	Concentration Non-applicable
CAS: 124-13-0	COD Non-applicable	Period 28 days
EC: 204-683-8	BOD5/COD Non-applicable	% Biodegradable 46 %
7-methyl-3-methyleneocta-1,6-diene	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 123-35-3	COD Non-applicable	Period 14 days
EC: 204-622-5	BOD5/COD Non-applicable	% Biodegradable 86 %

**12.3 Bioaccumulative potential:**

Identification	BCF	Pow Log	Potential
benzyl alcohol	0	1.1	Low
CAS: 100-51-6			
EC: 202-859-9			

\*\* Changes with regards to the previous version

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**FRA-212 - JUNGLE MONKEY**

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

Identification	Bioaccumulation potential	
Amyl cinnamal CAS: 122-40-7 EC: 204-541-5	BCF	586
	Pow Log	
	Potential	High
3-methylbutyl butyrate CAS: 106-27-4 EC: 203-380-8	BCF	120
	Pow Log	2.44
	Potential	High
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	BCF	311
	Pow Log	4
	Potential	High
Coumarin CAS: 91-64-5 EC: 202-086-7	BCF	10
	Pow Log	1.39
	Potential	Low
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	BCF	6
	Pow Log	1.36
	Potential	Low
3-p-cumenyl-2-methylpropionaldehyde CAS: 103-95-7 EC: 203-161-7	BCF	102
	Pow Log	3.05
	Potential	High
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	BCF	1584
	Pow Log	5.9
	Potential	Very High
Cinnamal CAS: 104-55-2 EC: 203-213-9	BCF	8
	Pow Log	1.9
	Potential	Low
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one CAS: 127-51-5 EC: 204-846-3	BCF	
	Pow Log	3.49
	Potential	
Octanal CAS: 124-13-0 EC: 204-683-8	BCF	100
	Pow Log	2.78
	Potential	High
7-methyl-3-methyleneocta-1,6-diene CAS: 123-35-3 EC: 204-622-5	BCF	324
	Pow Log	5.29
	Potential	High

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3,679E-2 N/m (25 °C)	Moist soil	Non-applicable
Amyl cinnamal CAS: 122-40-7 EC: 204-541-5	Koc	974.98	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
3-methylbutyl butyrate CAS: 106-27-4 EC: 203-380-8	Koc	276.5	Henry	Non-applicable
	Conclusion	Moderate	Dry soil	Non-applicable
	Surface tension	2,577E-2 N/m (25 °C)	Moist soil	Non-applicable
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	Koc	5600	Henry	Non-applicable
	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Coumarin CAS: 91-64-5 EC: 202-086-7	Koc	42	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

\*\* Changes with regards to the previous version

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**FRA-212 - JUNGLE MONKEY**

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

Identification	Absorption/desorption		Volatility	
2-phenylethanol CAS: 60-12-8 EC: 200-456-2	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3,807E-2 N/m (25 °C)	Moist soil	Non-applicable
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	Koc	240	Henry	Non-applicable
	Conclusion	Moderate	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Octan-1-ol CAS: 111-87-5 EC: 203-917-6	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,71E-2 N/m (25 °C)	Moist soil	Non-applicable
Cinnamal CAS: 104-55-2 EC: 203-213-9	Koc	37	Henry	3,546E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	Non-applicable	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
Octanal CAS: 124-13-0 EC: 204-683-8	Koc	430	Henry	Non-applicable
	Conclusion	Moderate	Dry soil	Non-applicable
	Surface tension	2,733E-2 N/m (25 °C)	Moist soil	Non-applicable
7-methyl-3-methyleneocta-1,6-diene CAS: 123-35-3 EC: 204-622-5	Koc	1300	Henry	6515,2 Pa·m <sup>3</sup> /mol
	Conclusion	Low	Dry soil	Non-applicable
	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:**

Not described

\*\* Changes with regards to the previous version

**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, HP3 Flammable, HP6 Acute Toxicity, 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. 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:

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**FRA-212 - JUNGLE MONKEY**

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



- 14.1 UN number:** UN1169  
**14.2 UN proper shipping name:** EXTRACTS, AROMATIC, LIQUID  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**14.4 Packing group:** III  
**14.5 Environmental hazards:** Yes  
**14.6 Special precautions for user**  
Special regulations: 601  
Tunnel restriction code: D/E  
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 39-18:



- 14.1 UN number:** UN1169  
**14.2 UN proper shipping name:** EXTRACTS, AROMATIC, LIQUID  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**14.4 Packing group:** III  
**14.5 Environmental hazards:** Yes  
**14.6 Special precautions for user**  
Special regulations: 223, 955  
EmS Codes: F-E, S-D  
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:** UN1169  
**14.2 UN proper shipping name:** EXTRACTS, AROMATIC, LIQUID  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**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:**

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains benzyl alcohol.  
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: benzyl alcohol (Product-type 6) ; Cinnamal (Product-type 2)  
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable  
**Seveso III:**

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## FRA-212 - JUNGLE MONKEY

### SECTION 15: REGULATORY INFORMATION (continued)

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c		5000	50000
E2		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:

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.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
  - Not a hazardous substance
  - 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (127-51-5)
  - Octanal (124-13-0)
  - 7-methyl-3-methyleneocta-1,6-diene (123-35-3)
  - Caryophyllene (87-44-5)

#### Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation  
H317: May cause an allergic skin reaction  
H411: Toxic to aquatic life with long lasting effects  
H302+H332: Harmful if swallowed or if inhaled  
H226: Flammable liquid and vapour

#### Texts of the legislative phrases mentioned in section 3:

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

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed  
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled  
Acute Tox. 4: H312 - Harmful in contact with skin  
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled  
Acute Tox. 4: H332 - Harmful 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  
Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
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 2: H371 - May cause damage to organs (Inhalation)

#### Classification procedure:

- CONTINUED ON NEXT PAGE -

## FRA-212 - JUNGLE MONKEY

## SECTION 16: OTHER INFORMATION (continued)

Eye Irrit. 2: Calculation method  
Skin Sens. 1A: Calculation method  
Aquatic Chronic 2: Calculation method  
Acute Tox. 4: Calculation method  
Flam. Liq. 3: Calculation method (2.6.4.3)

**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:**

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 -