FRAGRANCE OIL- AMANDE

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

1.1 Product identifier: FRAGRANCE OIL- AMANDE

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

Relevant uses: Raw materials for the cosmetics and pharmaceuticals industries

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
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.

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Eye Dam. 1: Serious eye damage, Category 1, H318
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:

Danger



Hazard statements:

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Eye Dam. 1: H318 - Causes serious eye damage
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
P302+P352: IF ON SKIN: Wash with plenty of water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310: Immediately call a poison center/doctor
P501: Dispose of contents/container according to the separated collection system used in your municipality

Supplementary information:

Contains Amyl cinnamal

Substances that contribute to the classification

Geraniol (CAS: 106-24-1); Nerol (CAS: 106-25-2); Citronellol (CAS: 106-22-9); 3-p-cumenyl-2-methylpropionaldehyde (CAS: 103-95-7)

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

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: 98-55-5 EC: 202-680-6 Index: Non-applicable REACH: 01-2119980717-23-XXXX	**P-menth-1-en-8-ol**[1]	Self-classified	**20 - <40 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	
CAS: 100-52-7 EC: 202-860-4 Index: 605-012-00-5 REACH: 01-2119455540-44-XXXX	**Benzaldehyde**[1]	ATP CLP00	**20 - <40 %**
	Regulation 1272/2008	Acute Tox. 4: H302 - Warning	
CAS: 120-51-4 EC: 204-402-9 Index: 607-085-00-9 REACH: 01-2119976371-33-XXXX	**Benzyl benzoate**[1]	Self-classified	**5 - <20 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Warning	
CAS: 106-24-1 EC: 203-377-1 Index: Non-applicable REACH: 01-2119552430-49-XXXX	**Geraniol**[1]	Self-classified	**5 - <20 %**
	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	
CAS: 2050-08-0 EC: 218-080-2 Index: Non-applicable REACH: 01-2120771342-58-XXXX	**Pentyl salicylate**[1]	Self-classified	**2 - <5 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 106-25-2 EC: 203-378-7 Index: Non-applicable REACH: 01-2119983244-33-XXXX	**Nerol**[1]	Self-classified	**2 - <5 %**
	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	
CAS: 104-87-0 EC: 203-246-9 Index: Non-applicable REACH: 01-2120755000-72-XXXX	**P-tolualdehyde**[1]	Self-classified	**2 - <5 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	
CAS: 106-22-9 EC: 203-375-0 Index: Non-applicable REACH: 01-2119453995-23-XXXX	**Citronellol**[1]	Self-classified	**2 - <5 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 140-11-4 EC: 205-399-7 Index: Non-applicable REACH: 01-2119638272-42-XXXX	**Benzyl acetate**[1]	Self-classified	**2 - <5 %**
	Regulation 1272/2008	Aquatic Chronic 3: H412	
CAS: 103-95-7 EC: 203-161-7 Index: Non-applicable REACH: 01-2119970582-32-XXXX	**3-p-cumenyl-2-methylpropionaldehyde**[1]	Self-classified	**2 - <5 %**
	Regulation 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 122-40-7 EC: 204-541-5 Index: Non-applicable REACH: 01-2120740487-49-XXXX	**Amyl cinnamal**[1]	Self-classified	**1 - <2 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	
CAS: 128-37-0 EC: 204-881-4 Index: Non-applicable REACH: 01-2119565113-46-XXXX	**2,6-di-tert-butyl-p-cresol**[1]	Self-classified	**1 - <2 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 88-41-5 EC: 201-828-7 Index: Non-applicable REACH: Non-applicable	**2-tert-butylcyclohexyl acetate**[1]	Self-classified	**1 - <2 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411	

[1] 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 8, 11, 12, 15 and 16.

SECTION 4: FIRST AID MEASURES

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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:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or 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, handling and use. In the case of combustion as a result of improper handling, 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:

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. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- 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

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on 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 ºC

Maximum Temp.: 20 ºC

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):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Benzaldehyde	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 100-52-7	Dermal	Non-applicable	Non-applicable	34,7 mg/kg	Non-applicable
EC: 202-860-4	Inhalation	Non-applicable	Non-applicable	10,4 mg/m³	6,3 mg/m³
Benzyl benzoate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 120-51-4	Dermal	Non-applicable	Non-applicable	2,6 mg/kg	Non-applicable
EC: 204-402-9	Inhalation	102 mg/m³	Non-applicable	5,1 mg/m³	Non-applicable
Geraniol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 106-24-1	Dermal	Non-applicable	Non-applicable	8,3 mg/kg	Non-applicable
EC: 203-377-1	Inhalation	Non-applicable	Non-applicable	29,4 mg/m³	Non-applicable
Nerol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 106-25-2	Dermal	Non-applicable	Non-applicable	0,76 mg/kg	Non-applicable
EC: 203-378-7	Inhalation	Non-applicable	Non-applicable	5,4 mg/m³	Non-applicable
Citronellol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 106-22-9	Dermal	Non-applicable	Non-applicable	327,4 mg/kg	Non-applicable
EC: 203-375-0	Inhalation	Non-applicable	10 mg/m³	161,6 mg/m³	10 mg/m³
Benzyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 140-11-4	Dermal	12,5 mg/kg	Non-applicable	6,25 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	43,8 mg/m³	Non-applicable	21,9 mg/m³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-p-cumenyl-2-methylpropionaldehyde	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 103-95-7	Dermal	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
EC: 203-161-7	Inhalation	Non-applicable	Non-applicable	5,83 mg/m³	Non-applicable
2,6-di-tert-butyl-p-cresol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 128-37-0	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
EC: 204-881-4	Inhalation	Non-applicable	Non-applicable	3,5 mg/m³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzaldehyde	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 100-52-7	Dermal	Non-applicable	Non-applicable	20,8 mg/kg	Non-applicable
EC: 202-860-4	Inhalation	Non-applicable	Non-applicable	2,1 mg/m³	1,3 mg/m³
Benzyl benzoate	Oral	78 mg/kg	Non-applicable	0,4 mg/kg	Non-applicable
CAS: 120-51-4	Dermal	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
EC: 204-402-9	Inhalation	25 mg/m³	Non-applicable	1,25 mg/m³	Non-applicable
Geraniol	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
CAS: 106-24-1	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
EC: 203-377-1	Inhalation	Non-applicable	Non-applicable	8,7 mg/m³	Non-applicable
Nerol	Oral	Non-applicable	Non-applicable	0,38 mg/kg	Non-applicable
CAS: 106-25-2	Dermal	Non-applicable	Non-applicable	0,38 mg/kg	Non-applicable
EC: 203-378-7	Inhalation	Non-applicable	Non-applicable	1,3 mg/m³	Non-applicable
Citronellol	Oral	Non-applicable	Non-applicable	13,8 mg/kg	Non-applicable
CAS: 106-22-9	Dermal	Non-applicable	Non-applicable	196,4 mg/kg	Non-applicable
EC: 203-375-0	Inhalation	Non-applicable	10 mg/m³	47,8 mg/m³	10 mg/m³
Benzyl acetate	Oral	6,25 mg/kg	Non-applicable	3,125 mg/kg	Non-applicable
CAS: 140-11-4	Dermal	6,25 mg/kg	Non-applicable	3,125 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	11 mg/m³	Non-applicable	5,5 mg/m³	Non-applicable
3-p-cumenyl-2-methylpropionaldehyde	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
CAS: 103-95-7	Dermal	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
EC: 203-161-7	Inhalation	Non-applicable	Non-applicable	1,45 mg/m³	Non-applicable
2,6-di-tert-butyl-p-cresol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 128-37-0	Dermal	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
EC: 204-881-4	Inhalation	Non-applicable	Non-applicable	0,86 mg/m³	Non-applicable

PNEC:

Identification				
P-menth-1-en-8-ol	STP	2,6 mg/L	Fresh water	0,068 mg/L
CAS: 98-55-5	Soil	0,329 mg/kg	Marine water	0,0068 mg/L
EC: 202-680-6	Intermittent	Non-applicable	Sediment (Fresh water)	1,85 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,185 mg/kg
Benzaldehyde	STP	7,59 mg/L	Fresh water	0,00107 mg/L
CAS: 100-52-7	Soil	0,00593 mg/kg	Marine water	0,000107 mg/L
EC: 202-860-4	Intermittent	0,0107 mg/L	Sediment (Fresh water)	0,01044 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00104 mg/kg
Benzyl benzoate	STP	100 mg/L	Fresh water	0,0168 mg/L
CAS: 120-51-4	Soil	2,12 mg/kg	Marine water	0,00168 mg/L
EC: 204-402-9	Intermittent	Non-applicable	Sediment (Fresh water)	10,66 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1,07 mg/kg
Geraniol	STP	0,7 mg/L	Fresh water	0,0108 mg/L
CAS: 106-24-1	Soil	0,0167 mg/kg	Marine water	0,00108 mg/L
EC: 203-377-1	Intermittent	0,108 mg/L	Sediment (Fresh water)	0,115 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0115 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Nerol	STP	12,9 mg/L	Fresh water	0,00745 mg/L
CAS: 106-25-2	Soil	0,0223 mg/kg	Marine water	0,000745 mg/L
EC: 203-378-7	Intermittent	0,0745 mg/L	Sediment (Fresh water)	0,133 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0133 mg/kg
Citronellol	STP	580 mg/L	Fresh water	0,0024 mg/L
CAS: 106-22-9	Soil	0,00371 mg/kg	Marine water	0,00024 mg/L
EC: 203-375-0	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,0256 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00256 mg/kg
Benzyl acetate	STP	8,55 mg/L	Fresh water	0,004 mg/L
CAS: 140-11-4	Soil	0,0205 mg/kg	Marine water	0,0004 mg/L
EC: 205-399-7	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,114 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0114 mg/kg
3-p-cumenyl-2-methylpropionaldehyde	STP	1 mg/L	Fresh water	0,00109 mg/L
CAS: 103-95-7	Soil	0,01936 mg/kg	Marine water	0,00011 mg/L
EC: 203-161-7	Intermittent	0,01092 mg/L	Sediment (Fresh water)	0,00598 mg/kg
	Oral	33,3 g/kg	Sediment (Marine water)	0,0006 mg/kg
2,6-di-tert-butyl-p-cresol	STP	0,17 mg/L	Fresh water	0,000199 mg/L
CAS: 128-37-0	Soil	0,04769 mg/kg	Marine water	0,0000199 mg/L
EC: 204-881-4	Intermittent	0,00199 mg/L	Sediment (Fresh water)	0,0996 mg/kg
	Oral	8,33 g/kg	Sediment (Marine water)	0,00996 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	CE CAT III	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks	CE CAT I		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 and EN 374.

"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.	CE CAT II	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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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CE CAT I		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professionalindustrial 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	CE CAT II	EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professionalindustrial 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):	26,72 % weight
V.O.C. density at 20 ºC:	262,53 kg/m³ (262,53 g/L)
Average carbon number:	7,29
Average molecular weight:	112,4 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 ºC:	Liquid
Appearance:	Not available
Colour:	Yellow
Odour:	Not available
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	217 ºC
Vapour pressure at 20 ºC:	44 Pa
Vapour pressure at 50 ºC:	304,68 Pa (0,3 kPa)
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	982,6 kg/m³
Relative density at 20 ºC:	0,983
Dynamic viscosity at 20 ºC:	5,68 cP
Kinematic viscosity at 20 ºC:	5,78 cSt
Kinematic viscosity at 40 ºC:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *

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

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	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:	
Flash Point:	84 ºC
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	192 ºC
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 ºC:	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	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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

Dangerous health implications:

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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 : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain 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 serious 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: Benzyl acetate (3); 2,6-di-tert-butyl-p-cresol (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, 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, 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
Benzyl benzoate	LD50 oral	1500 mg/kg	Rat
CAS: 120-51-4	LD50 dermal	4000 mg/kg	Rabbit
EC: 204-402-9	LC50 inhalation	Non-applicable	
Geraniol	LD50 oral	4200 mg/kg	Rat
CAS: 106-24-1	LD50 dermal	5100 mg/kg	Rabbit
EC: 203-377-1	LC50 inhalation	Non-applicable	
P-tolualdehyde	LD50 oral	1600 mg/kg	Rat
CAS: 104-87-0	LD50 dermal	2500 mg/kg	Rat
EC: 203-246-9	LC50 inhalation	Non-applicable	
Citronellol	LD50 oral	3450 mg/kg	Rat
CAS: 106-22-9	LD50 dermal	2650 mg/kg	
EC: 203-375-0	LC50 inhalation	Non-applicable	

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
P-menth-1-en-8-ol	LD50 oral	4300 mg/kg	Rat
CAS: 98-55-5	LD50 dermal	Non-applicable	
EC: 202-680-6	LC50 inhalation	Non-applicable	
Benzaldehyde	LD50 oral	1100 mg/kg	Rat
CAS: 100-52-7	LD50 dermal	Non-applicable	
EC: 202-860-4	LC50 inhalation	Non-applicable	
Pentyl salicylate	LD50 oral	2000 mg/kg	Rat
CAS: 2050-08-0	LD50 dermal	Non-applicable	
EC: 218-080-2	LC50 inhalation	Non-applicable	
Nerol	LD50 oral	4500 mg/kg	Rat
CAS: 106-25-2	LD50 dermal	Non-applicable	
EC: 203-378-7	LC50 inhalation	Non-applicable	
Benzyl acetate	LD50 oral	2490 mg/kg	Rat
CAS: 140-11-4	LD50 dermal	Non-applicable	
EC: 205-399-7	LC50 inhalation	Non-applicable	
3-p-cumenyl-2-methylpropionaldehyde	LD50 oral	3810 mg/kg	Rat
CAS: 103-95-7	LD50 dermal	Non-applicable	
EC: 203-161-7	LC50 inhalation	Non-applicable	
Amyl cinnamal	LD50 oral	3730 mg/kg	Rat
CAS: 122-40-7	LD50 dermal	Non-applicable	
EC: 204-541-5	LC50 inhalation	Non-applicable	
2,6-di-tert-butyl-p-cresol	LD50 oral	10000 mg/kg	Rat
CAS: 128-37-0	LD50 dermal	Non-applicable	
EC: 204-881-4	LC50 inhalation	Non-applicable	
2-tert-butylcyclohexyl acetate	LD50 oral	4600 mg/kg	Rat
CAS: 88-41-5	LD50 dermal	Non-applicable	
EC: 201-828-7	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	3311,05 mg/kg (Calculation method)	0 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
P-menth-1-en-8-ol	LC50	10 mg/L (96 h)	Salmo gairdneri	Fish
CAS: 98-55-5	EC50	Non-applicable		
EC: 202-680-6	EC50	Non-applicable		
Benzaldehyde	LC50	13.8 mg/L (96 h)	Carassius auratus	Fish
CAS: 100-52-7	EC50	50 mg/L (24 h)	Daphnia magna	Crustacean
EC: 202-860-4	EC50	Non-applicable		
Benzyl benzoate	LC50	2.32 mg/L (96 h)	Danio rerio	Fish
CAS: 120-51-4	EC50	3.1 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-402-9	EC50	0.36 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Pentyl salicylate	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 2050-08-0	EC50	0.1 - 1 mg/L		Crustacean
EC: 218-080-2	EC50	0.1 - 1 mg/L		Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Species	Genus
Nerol	LC50	20 mg/L (96 h)	Danio rerio	Fish
CAS: 106-25-2	EC50	32 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-378-7	EC50	10 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Benzyl acetate	LC50	Non-applicable		
CAS: 140-11-4	EC50	17 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-399-7	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae
Amyl cinnamal	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 122-40-7	EC50	1 - 10 mg/L		Crustacean
EC: 204-541-5	EC50	1 - 10 mg/L		Algae
2,6-di-tert-butyl-p-cresol	LC50	0.57 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 128-37-0	EC50	0.61 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-881-4	EC50	Non-applicable		
2-tert-butylcyclohexyl acetate	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 88-41-5	EC50	1 - 10 mg/L		Crustacean
EC: 201-828-7	EC50	1 - 10 mg/L		Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
P-menth-1-en-8-ol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 98-55-5	COD	Non-applicable	Period	14 days
EC: 202-680-6	BOD5/COD	Non-applicable	% Biodegradable	84,6 %
Benzaldehyde	BOD5	1.62 g O2/g	Concentration	100 mg/L
CAS: 100-52-7	COD	1.98 g O2/g	Period	14 days
EC: 202-860-4	BOD5/COD	0.82	% Biodegradable	66 %
Benzyl benzoate	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 120-51-4	COD	Non-applicable	Period	28 days
EC: 204-402-9	BOD5/COD	Non-applicable	% Biodegradable	94 %
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 %
Nerol	BOD5	Non-applicable	Concentration	2 mg/L
CAS: 106-25-2	COD	Non-applicable	Period	28 days
EC: 203-378-7	BOD5/COD	Non-applicable	% Biodegradable	90 %
Benzyl acetate	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 140-11-4	COD	Non-applicable	Period	28 days
EC: 205-399-7	BOD5/COD	Non-applicable	% Biodegradable	100 %
Amyl cinnamal	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 122-40-7	COD	Non-applicable	Period	28 days
EC: 204-541-5	BOD5/COD	Non-applicable	% Biodegradable	51 %
2,6-di-tert-butyl-p-cresol	BOD5	Non-applicable	Concentration	50 mg/L
CAS: 128-37-0	COD	Non-applicable	Period	28 days
EC: 204-881-4	BOD5/COD	Non-applicable	% Biodegradable	4,5 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
P-menth-1-en-8-ol	BCF	110
CAS: 98-55-5	Pow Log	2.98
EC: 202-680-6	Potential	High
Benzaldehyde	BCF	3
CAS: 100-52-7	Pow Log	1.48
EC: 202-860-4	Potential	Low
Benzyl benzoate	BCF	193
CAS: 120-51-4	Pow Log	4
EC: 204-402-9	Potential	High

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
Geraniol	BCF	110
CAS: 106-24-1	Pow Log	3.56
EC: 203-377-1	Potential	High
Nerol	BCF	44
CAS: 106-25-2	Pow Log	2.76
EC: 203-378-7	Potential	Moderate
Benzyl acetate	BCF	8
CAS: 140-11-4	Pow Log	1.96
EC: 205-399-7	Potential	Low
2,6-di-tert-butyl-p-cresol	BCF	1365
CAS: 128-37-0	Pow Log	5.1
EC: 204-881-4	Potential	Very High

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Benzaldehyde	Koc	Non-applicable	Henry	Non-applicable
CAS: 100-52-7	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 202-860-4	Surface tension	3,827E-2 N/m (25 ºC)	Moist soil	Non-applicable
Benzyl benzoate	Koc	6310	Henry	Non-applicable
CAS: 120-51-4	Conclusion	Immobile	Dry soil	Non-applicable
EC: 204-402-9	Surface tension	4,626E-2 N/m (25 ºC)	Moist soil	Non-applicable
Nerol	Koc	94	Henry	Non-applicable
CAS: 106-25-2	Conclusion	High	Dry soil	Non-applicable
EC: 203-378-7	Surface tension	Non-applicable	Moist soil	Non-applicable
P-tolualdehyde	Koc	Non-applicable	Henry	Non-applicable
CAS: 104-87-0	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-246-9	Surface tension	3,628E-2 N/m (25 ºC)	Moist soil	Non-applicable
Benzyl acetate	Koc	Non-applicable	Henry	Non-applicable
CAS: 140-11-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 205-399-7	Surface tension	3,558E-2 N/m (25 ºC)	Moist soil	Non-applicable
2,6-di-tert-butyl-p-cresol	Koc	8183	Henry	3,42E-1 Pa·m³/mol
CAS: 128-37-0	Conclusion	Immobile	Dry soil	Yes
EC: 204-881-4	Surface tension	1,255E-2 N/m (258,85 ºC)	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

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, 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:

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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. (Benzaldehyde; Benzyl benzoate)
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:



14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzaldehyde; Benzyl benzoate)
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 2019:



14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzaldehyde; Benzyl benzoate)
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

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SECTION 15: REGULATORY INFORMATION (continued)

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		200	500

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

Non-applicable

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

Other information:

UFI:6T90-U089-Q00U-7U91

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:

H315: Causes skin irritation
H318: Causes serious eye damage
H411: Toxic to aquatic life with long lasting effects
H317: May cause an allergic skin reaction

Texts of the legislative phrases mentioned in section 3:

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

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Eye Dam. 1: H318 - Causes serious eye damage
Eye Irrit. 2: H319 - Causes serious eye irritation
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 Irrit. 2: Calculation method
Eye Dam. 1: Calculation method
Aquatic Chronic 2: Calculation method
Skin Sens. 1B: 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:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

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 -