




FRAGRANCE OIL - PUNCH LIME

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

- 1.1 Product identifier:** FRAGRANCE OIL - PUNCH LIME
- 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 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Asp. Tox. 1: Aspiration hazard, Category 1, H304
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 3: H412 - Harmful to aquatic life with long lasting effects
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Dam. 1: H318 - Causes serious eye damage
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
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor
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
P501: Dispose of contents/container according to the separated collection system used in your municipality
- Supplementary information:**
Contains 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Cineole, Citronellal, Eugenol, Pin-2(10)-ene, Pin-2(3)-ene
- Substances that contribute to the classification**
d-limonene (CAS: 5989-27-5); Citral (CAS: 5392-40-5); Linalool (CAS: 78-70-6); Geraniol (CAS: 106-24-1)
- Additional Labelling (Annex XVII, REACH):**
Keep lamps filled with this liquid out of the reach of children. Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage.
Just a sip of grill lighter may lead to life-threatening lung damage
- Acute Toxicity Estimate (ATE mix):**

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FRAGRANCE OIL - PUNCH LIME

SECTION 2: HAZARDS IDENTIFICATION (continued)

43,68 % (oral) of the mixture consists of ingredient(s) of unknown toxicity

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

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: 5989-27-5 EC: 227-813-5 Index: Non-applicable REACH 01-2119529223-47-XXXX :		d-limonene ⁽¹⁾ Self-classified	5 - <20 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	
CAS: 5392-40-5 EC: 226-394-6 Index: 605-019-00-3 REACH 01-2119462829-23-XXXX :		Citral ⁽¹⁾ Self-classified	5 - <20 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 88-41-5 EC: 201-828-7 Index: Non-applicable REACH Non-applicable :		2-tert-butylcyclohexyl acetate ⁽¹⁾ Self-classified	5 - <20 %
	Regulation 1272/2008	Aquatic Chronic 2: H411	
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH 01-2119474016-42-XXXX :		Linalool ⁽¹⁾ ATP ATP10	5 - <20 %
	Regulation 1272/2008	Skin Sens. 1B: H317 - 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: 5471-51-2 EC: 226-806-4 Index: Non-applicable REACH 01-2120081921-55-XXXX :		4-(4-hydroxyphenyl)butan-2-one ⁽¹⁾ Self-classified	1 - <2 %
	Regulation 1272/2008	Acute Tox. 4: H302 - Warning	
CAS: 470-82-6 EC: 207-431-5 Index: Non-applicable REACH 01-2119967772-24-XXXX :		Cineole ⁽¹⁾ Self-classified	<1 %
	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Sens. 1B: H317 - Warning	
CAS: 127-91-3 EC: 204-872-5 Index: Non-applicable REACH 01-2119519230-54-XXXX :		Pin-2(10)-ene ⁽¹⁾ Self-classified	<1 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	
CAS: 123-35-3 EC: 204-622-5 Index: Non-applicable REACH 01-2119514321-56-XXXX :		7-methyl-3-methylenoocta-1,6-diene ⁽¹⁾ Self-classified	<1 %
	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	
CAS: 80-56-8 EC: 201-291-9 Index: Non-applicable REACH 01-2119519223-49-XXXX :		Pin-2(3)-ene ⁽¹⁾ Self-classified	<1 %
	Regulation 1272/2008	Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	
CAS: 106-23-0 EC: 203-376-6 Index: Non-applicable REACH 01-2119474900-37-XXXX :		Citronellal ⁽¹⁾ Self-classified	<1 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	

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

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FRAGRANCE OIL - PUNCH LIME

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification		Concentration
CAS: 68039-49-6 EC: 268-264-1 Index: Non-applicable REACH Non-applicable :	2,4-dimethylcyclohex-3-ene-1-carbaldehyde⁽¹⁾	Self-classified	<1 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 97-53-0 EC: 202-589-1 Index: Non-applicable REACH 01-2119971802-33-XXXX :	Eugenol⁽¹⁾	Self-classified	<1 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	

⁽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

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:

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:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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.

- CONTINUED ON NEXT PAGE -



FRAGRANCE OIL - PUNCH LIME

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

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

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

C.- Technical recommendations to prevent ergonomic and toxicological risks

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

D.- Technical recommendations to prevent environmental risks

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

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 20 °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):

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FRAGRANCE OIL - PUNCH LIME

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
d-limonene CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33,3 mg/m ³	Non-applicable
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m ³	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	5 mg/kg	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	16,5 mg/m ³	Non-applicable	2,8 mg/m ³	Non-applicable
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	8,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	29,4 mg/m ³	Non-applicable
Cineole CAS: 470-82-6 EC: 207-431-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	7,05 mg/m ³	Non-applicable
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,98 mg/m ³	Non-applicable
7-methyl-3-methylenecycloocta-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/m ³	Non-applicable
Pin-2(3)-ene CAS: 80-56-8 EC: 201-291-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,98 mg/m ³	Non-applicable
Citronellal CAS: 106-23-0 EC: 203-376-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m ³	Non-applicable
Eugenol CAS: 97-53-0 EC: 202-589-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	36 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
d-limonene CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	4,76 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,33 mg/m ³	Non-applicable
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,7 mg/m ³	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	1,2 mg/kg	Non-applicable	0,2 mg/kg	Non-applicable
	Dermal	2,5 mg/kg	Non-applicable	1,25 mg/kg	Non-applicable
	Inhalation	4,1 mg/m ³	Non-applicable	0,7 mg/m ³	Non-applicable
Geraniol CAS: 106-24-1 EC: 203-377-1	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,7 mg/m ³	Non-applicable
Cineole CAS: 470-82-6 EC: 207-431-5	Oral	Non-applicable	Non-applicable	600 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,74 mg/m ³	Non-applicable
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	Oral	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,06 mg/m ³	Non-applicable

- CONTINUED ON NEXT PAGE -

FRAGRANCE OIL - PUNCH LIME

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
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/m³	Non-applicable
Pin-2(3)-ene CAS: 80-56-8 EC: 201-291-9	Oral	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,06 mg/m³	Non-applicable
Citronellal CAS: 106-23-0 EC: 203-376-6	Oral	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,7 mg/m³	Non-applicable

PNEC:

Identification					
d-limonene CAS: 5989-27-5 EC: 227-813-5	STP	1,8 mg/L	Fresh water	0,0054 mg/L	
	Soil	0,262 mg/kg	Marine water	0,00054 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	1,32 mg/kg	
	Oral	3,33 g/kg	Sediment (Marine water)	0,13 mg/kg	
Citral CAS: 5392-40-5 EC: 226-394-6	STP	1,6 mg/L	Fresh water	0,00678 mg/L	
	Soil	0,0209 mg/kg	Marine water	0,000678 mg/L	
	Intermittent	0,0678 mg/L	Sediment (Fresh water)	0,125 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,0125 mg/kg	
Linalool CAS: 78-70-6 EC: 201-134-4	STP	10 mg/L	Fresh water	0,2 mg/L	
	Soil	0,327 mg/kg	Marine water	0,02 mg/L	
	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg	
	Oral	7,8 g/kg	Sediment (Marine water)	0,222 mg/kg	
Geraniol CAS: 106-24-1 EC: 203-377-1	STP	0,7 mg/L	Fresh water	0,0108 mg/L	
	Soil	0,0167 mg/kg	Marine water	0,00108 mg/L	
	Intermittent	0,108 mg/L	Sediment (Fresh water)	0,115 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,0115 mg/kg	
Cineole CAS: 470-82-6 EC: 207-431-5	STP	10 mg/L	Fresh water	0,057 mg/L	
	Soil	0,2 mg/kg	Marine water	0,0057 mg/L	
	Intermittent	0,57 mg/L	Sediment (Fresh water)	0,06732 mg/kg	
	Oral	133 g/kg	Sediment (Marine water)	0,00673 mg/kg	
Pin-2(10)-ene CAS: 127-91-3 EC: 204-872-5	STP	3,26 mg/L	Fresh water	0,002 mg/L	
	Soil	0,49 mg/kg	Marine water	0,0002 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	0,485 mg/kg	
	Oral	1,35 g/kg	Sediment (Marine water)	0,048 mg/kg	
7-methyl-3-methylenoocta-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	
Pin-2(3)-ene CAS: 80-56-8 EC: 201-291-9	STP	3,26 mg/L	Fresh water	0,004 mg/L	
	Soil	0,539 mg/kg	Marine water	0,0004 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	1,033 mg/kg	
	Oral	1,35 g/kg	Sediment (Marine water)	0,103 mg/kg	
Citronellal CAS: 106-23-0 EC: 203-376-6	STP	4 mg/L	Fresh water	0,00868 mg/L	
	Soil	0,0267 mg/kg	Marine water	0,00087 mg/L	
	Intermittent	0,0868 mg/L	Sediment (Fresh water)	0,159 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,0159 mg/kg	
Eugenol CAS: 97-53-0 EC: 202-589-1	STP	Non-applicable	Fresh water	0,00113 mg/L	
	Soil	0,0155 mg/kg	Marine water	0,000113 mg/L	
	Intermittent	0,0113 mg/L	Sediment (Fresh water)	0,081 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0,0081 mg/kg	

8.2 Exposure controls:

- CONTINUED ON NEXT PAGE -

FRAGRANCE OIL - PUNCH LIME



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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	 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	 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.	 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	 CAT I		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	 CAT II	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):	26,47 % weight
V.O.C. density at 20 °C:	255,66 kg/m ³ (255,66 g/L)
Average carbon number:	10
Average molecular weight:	141,43 g/mol

- CONTINUED ON NEXT PAGE -

FRAGRANCE OIL - PUNCH LIME

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:

Yellow

Odour:

Not available

Odour threshold:

Non-applicable *

Volatility:

Boiling point at atmospheric pressure:

202 °C

Vapour pressure at 20 °C:

96 Pa

Vapour pressure at 50 °C:

555,21 Pa (0,56 kPa)

Evaporation rate at 20 °C:

Non-applicable *

Product description:

Density at 20 °C:

965,8 kg/m³

Relative density at 20 °C:

0,966

Dynamic viscosity at 20 °C:

Non-applicable *

Kinematic viscosity at 20 °C:

Non-applicable *

Kinematic viscosity at 40 °C:

<20,5 cSt

Concentration:

Non-applicable *

pH:

Non-applicable *

Vapour density at 20 °C:

Non-applicable *

Partition coefficient n-octanol/water 20 °C:

Non-applicable *

Solubility in water at 20 °C:

Non-applicable *

Solubility properties:

Non-applicable *

Decomposition temperature:

Non-applicable *

Melting point/freezing point:

Non-applicable *

Explosive properties:

Non-applicable *

Oxidising properties:

Non-applicable *

Flammability:

Flash Point:

63 °C

Flammability (solid, gas):

Non-applicable *

Autoignition temperature:

202 °C

Lower flammability limit:

Non-applicable *

Upper flammability limit:

Non-applicable *

Explosive:

Lower explosive limit:

Non-applicable *

Upper explosive limit:

Non-applicable *

9.2 Other information:

Surface tension at 20 °C:

Non-applicable *

Refraction index:

Non-applicable *

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

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

- CONTINUED ON NEXT PAGE -



FRAGRANCE OIL - PUNCH LIME

SECTION 10: STABILITY AND REACTIVITY (continued)

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

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

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

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: d-limonene (3); 7-methyl-3-methylenecyclohex-1,6-diene (2B); Eugenol (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:

- CONTINUED ON NEXT PAGE -



FRAGRANCE OIL - PUNCH LIME

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Citral CAS: 5392-40-5 EC: 226-394-6	LD50 oral	4950 mg/kg	Rat
	LD50 dermal	2250 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Geraniol CAS: 106-24-1 EC: 203-377-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Linalool CAS: 78-70-6 EC: 201-134-4	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	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	
4-(4-hydroxyphenyl)butan-2-one CAS: 5471-51-2 EC: 226-806-4	LD50 oral	1400 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Cineole CAS: 470-82-6 EC: 207-431-5	LD50 oral	2480 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Pin-2(3)-ene CAS: 80-56-8 EC: 201-291-9	LD50 oral	3700 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Citronellal CAS: 106-23-0 EC: 203-376-6	LD50 oral	2500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1	LD50 oral	2500 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Eugenol CAS: 97-53-0 EC: 202-589-1	LD50 oral	2300 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	46381,18 mg/kg (Calculation method)	43,68 %
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

- CONTINUED ON NEXT PAGE -



FRAGRANCE OIL - PUNCH LIME

SECTION 12: ECOLOGICAL INFORMATION (continued)

12.1 Toxicity:

Identification	Acute toxicity	Species	Genus
d-limonene	LC50 0.702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50 0.577 mg/L (48 h)	Daphnia magna	Crustacean
EC: 227-813-5	EC50 Non-applicable		
Citral	LC50 6.1 mg/L (24 h)	Oryzias latipes	Fish
CAS: 5392-40-5	EC50 11 mg/L (24 h)	Daphnia magna	Crustacean
EC: 226-394-6	EC50 16 mg/L (72 h)	Scenedesmus subspicatus	Algae
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
Linalool	LC50 27.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 78-70-6	EC50 59 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-134-4	EC50 88.3 mg/L (96 h)	Scenedesmus subspicatus	Algae
Pin-2(10)-ene	LC50 0.1 - 1 mg/L (96 h)		Fish
CAS: 127-91-3	EC50 0.1 - 1 mg/L		Crustacean
EC: 204-872-5	EC50 0.1 - 1 mg/L		Algae
7-methyl-3-methylenecycloocta-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
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	LC50 1 - 10 mg/L (96 h)		Fish
CAS: 68039-49-6	EC50 1 - 10 mg/L		Crustacean
EC: 268-264-1	EC50 1 - 10 mg/L		Algae
Eugenol	LC50 60.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 97-53-0	EC50 Non-applicable		
EC: 202-589-1	EC50 Non-applicable		

12.2 Persistence and degradability:

Identification	Degradability	Biodegradability
d-limonene	BOD5 Non-applicable	Concentration Non-applicable
CAS: 5989-27-5	COD Non-applicable	Period 28 days
EC: 227-813-5	BOD5/COD Non-applicable	% Biodegradable 100 %
Citral	BOD5 0.56 g O2/g	Concentration 100 mg/L
CAS: 5392-40-5	COD 1.99 g O2/g	Period 28 days
EC: 226-394-6	BOD5/COD 0.28	% Biodegradable 92 %
Linalool	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 78-70-6	COD Non-applicable	Period 28 days
EC: 201-134-4	BOD5/COD 0.55	% Biodegradable 90 %
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 %
7-methyl-3-methylenecycloocta-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 %
Pin-2(3)-ene	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 80-56-8	COD Non-applicable	Period 28 days
EC: 201-291-9	BOD5/COD Non-applicable	% Biodegradable 95 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential
d-limonene	BCF 660
CAS: 5989-27-5	Pow Log 4.83
EC: 227-813-5	Potential High
Citral	BCF 10
CAS: 5392-40-5	Pow Log 3.45
EC: 226-394-6	Potential Low

- CONTINUED ON NEXT PAGE -



FRAGRANCE OIL - PUNCH LIME

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
Linalool	BCF	39
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	Moderate
Geraniol	BCF	110
CAS: 106-24-1	Pow Log	3.56
EC: 203-377-1	Potential	High
Cineole	BCF	
CAS: 470-82-6	Pow Log	2.74
EC: 207-431-5	Potential	
Pin-2(10)-ene	BCF	440
CAS: 127-91-3	Pow Log	4.35
EC: 204-872-5	Potential	High
7-methyl-3-methylenoocta-1,6-diene	BCF	324
CAS: 123-35-3	Pow Log	5.29
EC: 204-622-5	Potential	High
Pin-2(3)-ene	BCF	2800
CAS: 80-56-8	Pow Log	4.83
EC: 201-291-9	Potential	Very High
Citronellal	BCF	280
CAS: 106-23-0	Pow Log	3.53
EC: 203-376-6	Potential	High
Eugenol	BCF	31
CAS: 97-53-0	Pow Log	2.27
EC: 202-589-1	Potential	Moderate

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
d-limonene	Koc	6324	Henry	Non-applicable
CAS: 5989-27-5	Conclusion		Dry soil	Non-applicable
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 °C)	Moist soil	Non-applicable
Cineole	Koc	Non-applicable	Henry	Non-applicable
CAS: 470-82-6	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 207-431-5	Surface tension	3,24E-2 N/m (25 °C)	Moist soil	Non-applicable
Pin-2(10)-ene	Koc	Non-applicable	Henry	Non-applicable
CAS: 127-91-3	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 204-872-5	Surface tension	2,685E-2 N/m (25 °C)	Moist soil	Non-applicable
7-methyl-3-methylenoocta-1,6-diene	Koc	1300	Henry	6515,2 Pa·m³/mol
CAS: 123-35-3	Conclusion	Low	Dry soil	Non-applicable
EC: 204-622-5	Surface tension	Non-applicable	Moist soil	Yes
Pin-2(3)-ene	Koc	Non-applicable	Henry	Non-applicable
CAS: 80-56-8	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 201-291-9	Surface tension	2,587E-2 N/m (25 °C)	Moist soil	Non-applicable

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

- CONTINUED ON NEXT PAGE -



FRAGRANCE OIL - PUNCH LIME

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP13 Sensitising, 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

This product is not regulated for transport (ADR/RID,IMDG,IATA)

SECTION 15: REGULATORY INFORMATION

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

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

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

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

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

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

Seveso III:

Non-applicable

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

Keep lamps filled with this liquid out of the reach of children. Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage.

Just a sip of grill lighter may lead to life-threatening lung damage

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:T9G0-70EQ-A00H-KPK5

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:

- CONTINUED ON NEXT PAGE -



FRAGRANCE OIL - PUNCH LIME

SECTION 16: OTHER INFORMATION (continued)

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H412: Harmful to aquatic life with long lasting effects
H318: Causes serious eye damage
H304: May be fatal if swallowed and enters airways

Texts of the legislative phrases mentioned in section 3:

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

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Dam. 1: H318 - Causes serious eye damage
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 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. 1B: H317 - May cause an allergic skin reaction

Classification procedure:

Skin Irrit. 2: Calculation method
Skin Sens. 1B: Calculation method
Aquatic Chronic 3: Calculation method
Eye Dam. 1: Calculation method
Asp. Tox. 1: Calculation method

Advice related to training:

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

Principal bibliographical sources:

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

Abbreviations and acronyms:

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 -