


FRAGRANCE OIL - ANANAS

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

- 1.1 Product identifier:** FRAGRANCE OIL - ANANAS
- 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.
Acute Tox. 3: Acute toxicity, Category 3, H311+H331
Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Sens. 1: Sensitisation, skin, Category 1, H317
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Danger
- 
- Hazard statements:**
Acute Tox. 3: H311+H331 - Toxic in contact with skin or if inhaled
Acute Tox. 4: H302 - Harmful if swallowed
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Flam. Liq. 3: H226 - Flammable liquid and vapour
Skin Sens. 1: 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
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
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 Allyl 3-cyclohexylpropionate
- Substances that contribute to the classification**
Benzyl benzoate (CAS: 120-51-4); Allyl hexanoate (CAS: 123-68-2); Allyl heptanoate (CAS: 142-19-8); Orange, sweet, ext. (CAS: 68647-72-3)
- Acute Toxicity Estimate (ATE mix):**
20,33 % (oral), 23,58 % (dermal), 56,1 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity
- 2.3 Other hazards:**

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SECTION 2: HAZARDS IDENTIFICATION (continued)

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: 120-51-4 EC: 204-402-9 Index: 607-085-00-9 REACH 01-2119976371-33-XXXX :	Benzyl benzoate ⁽¹⁾ Self-classified		20 - <40 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Warning	
CAS: 123-68-2 EC: 204-642-4 Index: Non-applicable REACH 01-2119983573-26-XXXX :	Allyl hexanoate ⁽¹⁾ Self-classified		20 - <40 %
	Regulation 1272/2008	Acute Tox. 3: H301+H311+H331; Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Danger	
CAS: 142-19-8 EC: 205-527-1 Index: Non-applicable REACH 01-2119488961-23-XXXX :	Allyl heptanoate ⁽¹⁾ Self-classified		5 - <20 %
	Regulation 1272/2008	Acute Tox. 3: H301+H311+H331; Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Danger	
CAS: 68647-72-3 EC: 232-433-8 Index: Non-applicable REACH 01-2119493353-35-XXXX :	Orange, sweet, ext. ⁽¹⁾ Self-classified		5 - <20 %
	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: 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: 2705-87-5 EC: 220-292-5 Index: Non-applicable REACH 01-2119976355-27-XXXX :	Allyl 3-cyclohexylpropionate ⁽¹⁾ Self-classified		1 - <2 %
	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning	
CAS: 141-78-6 EC: 205-500-4 Index: 607-022-00-5 REACH 01-2119475103-46-XXXX :	Ethyl acetate ⁽¹⁾ ATP CLP00		1 - <2 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	
CAS: 100-52-7 EC: 202-860-4 Index: 605-012-00-5 REACH 01-2119455540-44-XXXX :	Benzaldehyde ⁽¹⁾ Self-classified		1 - <2 %
	Regulation 1272/2008	Acute Tox. 4: H302+H332; Eye Irrit. 2: H319; STOT SE 3: H335 - 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:

Request medical assistance immediately, 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.

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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for 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 (CO₂). 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.

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.

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SECTION 7: HANDLING AND STORAGE (continued)

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 94/9/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 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

Identification	Environmental limits		
	IOELV (8h)	200 ppm	734 mg/m ³
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	IOELV (STEL)	400 ppm	1468 mg/m ³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,6 mg/kg	Non-applicable
	Inhalation	102 mg/m ³	Non-applicable	5,1 mg/m ³	Non-applicable
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m ³	Non-applicable
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	16 mg/m ³	Non-applicable
Orange, sweet, ext. CAS: 68647-72-3 EC: 232-433-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	8,89 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	31,1 mg/m ³	Non-applicable
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,5 mg/m ³	Non-applicable
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m ³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	63 mg/kg	Non-applicable
	Inhalation	1468 mg/m³	1468 mg/m³	734 mg/m³	734 mg/m³
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	34,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	10,4 mg/m³	6,3 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	Oral	78 mg/kg	Non-applicable	0,4 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
	Inhalation	25 mg/m³	Non-applicable	1,25 mg/m³	Non-applicable
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	Oral	Non-applicable	Non-applicable	2,1 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,7 mg/m³	Non-applicable
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	Oral	Non-applicable	Non-applicable	2,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,1 mg/m³	Non-applicable
Orange, sweet, ext. CAS: 68647-72-3 EC: 232-433-8	Oral	Non-applicable	Non-applicable	4,44 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,44 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	7,78 mg/m³	Non-applicable
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,86 mg/m³	Non-applicable
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	Oral	Non-applicable	Non-applicable	2,1 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,7 mg/m³	Non-applicable
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	4,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	37 mg/kg	Non-applicable
	Inhalation	734 mg/m³	734 mg/m³	367 mg/m³	367 mg/m³
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	20,8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,1 mg/m³	1,3 mg/m³

PNEC:

Identification					
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	STP	100 mg/L	Fresh water	0,0168 mg/L	
	Soil	2,12 mg/kg	Marine water	0,00168 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	10,66 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	1,07 mg/kg	
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	STP	10 mg/L	Fresh water	0,000117 mg/L	
	Soil	0,000825 mg/kg	Marine water	0,0000117 mg/L	
	Intermittent	0,00117 mg/L	Sediment (Fresh water)	0,00446 mg/kg	
	Oral	47,56 g/kg	Sediment (Marine water)	0,000446 mg/kg	
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	STP	10 mg/L	Fresh water	0,00012 mg/L	
	Soil	0,00233 mg/kg	Marine water	0,000012 mg/L	
	Intermittent	0,0012 mg/L	Sediment (Fresh water)	0,012 mg/kg	
	Oral	51,78 g/kg	Sediment (Marine water)	0,0012 mg/kg	
Orange, sweet, ext. CAS: 68647-72-3 EC: 232-433-8	STP	2,1 mg/L	Fresh water	0,0054 mg/L	
	Soil	0,261 mg/kg	Marine water	0,00054 mg/L	
	Intermittent	0,00577 mg/L	Sediment (Fresh water)	1,3 mg/kg	
	Oral	13,3 g/kg	Sediment (Marine water)	0,13 mg/kg	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	STP	0,17 mg/L	Fresh water	0,000199 mg/L
	Soil	0,04769 mg/kg	Marine water	0,0000199 mg/L
	Intermittent	0,00199 mg/L	Sediment (Fresh water)	0,0996 mg/kg
	Oral	8,33 g/kg	Sediment (Marine water)	0,00996 mg/kg
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	STP	0,2 mg/L	Fresh water	0,00013 mg/L
	Soil	0,00475 mg/kg	Marine water	0,000013 mg/L
	Intermittent	0,0013 mg/L	Sediment (Fresh water)	0,02413 mg/kg
	Oral	143 g/kg	Sediment (Marine water)	0,002413 mg/kg
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	STP	650 mg/L	Fresh water	0,24 mg/L
	Soil	0,148 mg/kg	Marine water	0,024 mg/L
	Intermittent	1,65 mg/L	Sediment (Fresh water)	1,15 mg/kg
	Oral	200 g/kg	Sediment (Marine water)	0,115 mg/kg
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	STP	7,59 mg/L	Fresh water	0,00107 mg/L
	Soil	0,00593 mg/kg	Marine water	0,000107 mg/L
	Intermittent	0,0107 mg/L	Sediment (Fresh water)	0,01044 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00104 mg/kg



8.2 Exposure controls:

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



In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have 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 additional 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		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	NON-disposable chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

"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	Face shield		EN 166:2001 EN 167:2001 EN 168:2001 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
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1:2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

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):	60,16 % weight
V.O.C. density at 20 °C:	572,45 kg/m ³ (572,45 g/L)
Average carbon number:	9,15
Average molecular weight:	153,44 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:	Yellow
Odour:	Not available
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	215 °C
Vapour pressure at 20 °C:	446 Pa
Vapour pressure at 50 °C:	1892,11 Pa (1,89 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	951,5 kg/m ³
Relative density at 20 °C:	0,952
Dynamic viscosity at 20 °C:	1,09 cP
Kinematic viscosity at 20 °C:	1,15 cSt
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *

*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)

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:	56 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	192 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Explosive:

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

9.2 Other information:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

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

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

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FRAGRANCE OIL - ANANAS

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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 : Inhalation after prolonged exposure may be lethal.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Can be fatal if the product is absorbed through the skin. For more information on the secondary effects of skin contact see section 2.
 - Contact with the eyes: 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.
- 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: 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. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Skin: 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.
- 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 benzoate CAS: 120-51-4 EC: 204-402-9	LD50 oral	1500 mg/kg	Rat
	LD50 dermal	4000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	LD50 oral	220 mg/kg	
	LD50 dermal	300 mg/kg (ATEi)	
	LC50 inhalation	3 mg/L (4 h) (ATEi)	
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	LD50 oral	218 mg/kg	Rat
	LD50 dermal	810 mg/kg (ATEi)	Rabbit
	LC50 inhalation	3 mg/L (4 h) (ATEi)	
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	LD50 oral	480 mg/kg	Rat
	LD50 dermal	1600 mg/kg (ATEi)	Rat
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LD50 oral	4100 mg/kg	Rat
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	LD50 oral	1100 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LD50 oral	10000 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	375,83 mg/kg (Calculation method)	20,33 %
Dermal	746,38 mg/kg (Calculation method)	23,58 %
Inhalation	3,17 mg/L (4 h) (Calculation method)	56,1 %

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
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LC50	2.32 mg/L (96 h)	Danio rerio	Fish
	EC50	3.1 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.36 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Allyl hexanoate CAS: 123-68-2 EC: 204-642-4	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
Allyl heptanoate CAS: 142-19-8 EC: 205-527-1	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
Orange, sweet, ext. CAS: 68647-72-3 EC: 232-433-8	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LC50	0.57 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	0.61 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	LC50	0.13 mg/L (96 h)	Pimephales promelas	Fish
	EC50	3.8 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LC50	230 mg/L (96 h)	Pimephales promelas	Fish
	EC50	717 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3300 mg/L (48 h)	Scenedesmus subspicatus	Algae
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	LC50	13.8 mg/L (96 h)	Carassius auratus	Fish
	EC50	50 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	94 %
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BOD5	Non-applicable	Concentration	50 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	4,5 %
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	BOD5	Non-applicable	Concentration	5 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	86 %

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FRAGRANCE OIL - ANANAS

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradability	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BOD5	1.36 g O2/g	Concentration	100 mg/L
	COD	1.69 g O2/g	Period	14 days
	BOD5/COD	0.81	% Biodegradable	83 %
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	BOD5	1.62 g O2/g	Concentration	100 mg/L
	COD	1.98 g O2/g	Period	14 days
	BOD5/COD	0.82	% Biodegradable	66 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	BCF	193
	Pow Log	4
	Potential	High
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF	1365
	Pow Log	5.1
	Potential	Very High
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	BCF	860
	Pow Log	4.28
	Potential	High
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF	30
	Pow Log	0.73
	Potential	Moderate
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	BCF	3
	Pow Log	1.48
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	Koc	6310	Henry	Non-applicable
	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	4,626E-2 N/m (25 °C)	Moist soil	Non-applicable
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Koc	8183	Henry	3,42E-1 Pa·m³/mol
	Conclusion	Immobile	Dry soil	Yes
	Surface tension	1,255E-2 N/m (258,85 °C)	Moist soil	Yes
Allyl 3-cyclohexylpropionate CAS: 2705-87-5 EC: 220-292-5	Koc	1820	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc	59	Henry	13,58 Pa·m³/mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,324E-2 N/m (25 °C)	Moist soil	Yes
Benzaldehyde CAS: 100-52-7 EC: 202-860-4	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3,827E-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

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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

HP14 Ecotoxic, HP3 Flammable, HP6 Acute Toxicity

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:



14.1	UN number:	UN1992
14.2	UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, N.O.S. (Orange, sweet, ext.; Allyl hexanoate)
14.3	Transport hazard class(es):	3
	Labels:	3, 6.1
14.4	Packing group:	III
14.5	Environmental hazards:	Yes
14.6	Special precautions for user	
	Special regulations:	274
	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 38-16:



14.1	UN number:	UN1992
14.2	UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, N.O.S. (Orange, sweet, ext.; Allyl hexanoate)
14.3	Transport hazard class(es):	3
	Labels:	3, 6.1
14.4	Packing group:	III
14.5	Environmental hazards:	Yes
14.6	Special precautions for user	
	Special regulations:	274, 223
	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 2019:

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FRAGRANCE OIL - ANANAS

SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number:	UN1992
14.2 UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, N.O.S. (Orange, sweet, ext.; Allyl hexanoate)
14.3 Transport hazard class(es):	3
Labels:	3, 6.1
14.4 Packing group:	III
14.5 Environmental hazards:	Yes
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

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

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

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

Article 95, REGULATION (EU) No 528/2012: Non-applicable

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
H2		50	200
P5c		5000	50000
E1		100	200

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

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopie" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.

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:38C0-F001-X008-GN64

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:

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FRAGRANCE OIL - ANANAS

SECTION 16: OTHER INFORMATION (continued)

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:

H400: Very toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects
H317: May cause an allergic skin reaction
H311+H331: Toxic in contact with skin or if inhaled
H302: Harmful if swallowed
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. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
Acute Tox. 4: H302 - Harmful if swallowed
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 2: H225 - Highly flammable liquid and vapour
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
STOT SE 3: H335 - May cause respiratory irritation
STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:

Aquatic Acute 1: Calculation method
Aquatic Chronic 2: Calculation method
Skin Sens. 1: Calculation method
Acute Tox. 3: 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 -