

## Safety data sheet


This SDS is an English translation of Regulation (EU) n° 2015/830, without any country-specific legislation

### **ESENCIA 5720** **ART. COMERCIAL MANGO FRUIT**

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

- 1.1 Product identifier:** ESENCIA 5720  
ART. COMERCIAL MANGO FRUIT – **cod. Ufi : 6833-901T-900C-CMGA**
- Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Fragrance. For professional user/industrial user only.  
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:**  
PROREUSE SRLS  
VIA TORINO 30  
10070- VALLO TORINESE – ITALY  
Phone.: ++39 37 11 99 85 31  
info@candelx.it
- 1.4 Emergency telephone number:** +39 37 11 99 85 31

#### 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  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
**Warning**
- 
- Hazard statements:**  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- Supplementary information:**  
Contains DIMETHYL HEPTENAL, DIMETHYL-3-CYCLOHEXENE-1-CARBALDEHYDE, ETHYL METHYLPHENYLGLYCIDATE, LINALOOL, CITRUS NOBILIS FRUIT EXTRACT.
- Substances that contribute to the classification**  
DELTA-DAMASCONE
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

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

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Odoriferous mixture based on natural and/or synthetic ingredients

**Components:**

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

Identification	Chemical name/Classification	Concentration
CAS: 77-83-8 EC: 201-061-8 Index: Non-applicable REACH: 01-2119967770-28-XXXX	<b>Ethyl 2,3-epoxy-3-phenylbutyrate<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	Self-classified <b>20 - &lt;30 %</b> 
CAS: 104-67-6 EC: 203-225-4 Index: Non-applicable REACH: 01-2119959333-34-XXXX	<b>Undecan-4-olide<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412	Self-classified <b>20 - &lt;30 %</b>
CAS: 10094-34-5 EC: 233-221-8 Index: Non-applicable REACH: 01-2120742578-44-XXXX	<b>a,a-dimethylphenethyl butyrate<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411	Self-classified <b>5 - &lt;10 %</b> 
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	<b>Linalool<sup>(1)</sup></b> Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <b>5 - &lt;10 %</b> 
CAS: 84929-38-4 EC: 284-521-0 Index: Non-applicable REACH: 01-2120074120-72-XXXX	<b>Mandarin orange, ext.<sup>(1)</sup></b> 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	Self-classified <b>5 - &lt;10 %</b> 
CAS: 140-11-4 EC: 205-399-7 Index: Non-applicable REACH: 01-2119638272-42-XXXX	<b>Benzyl acetate<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 3: H412	Self-classified <b>2,5 - &lt;5 %</b>
CAS: 27939-60-2 EC: 248-742-6 Index: Non-applicable REACH: 01-2120766006-57-XXXX	<b>Dimethylcyclohex-3-ene-1-carbaldehyde<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <b>1 - &lt;2,5 %</b> 
CAS: 106-72-9 EC: 203-427-2 Index: Non-applicable REACH: 01-2120270305-62-XXXX	<b>2,6-dimethylhept-5-enal<sup>(1)</sup></b> Regulation 1272/2008 Skin Sens. 1B: H317 - Warning	Self-classified <b>1 - &lt;2,5 %</b> 
CAS: 4940-11-8 EC: 225-582-5 Index: Non-applicable REACH: 01-2120758795-36-XXXX	<b>2-ethyl-3-hydroxy-4-pyrone<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302 - Warning	Self-classified <b>1 - &lt;2,5 %</b> 
CAS: 57378-68-4 EC: 260-709-8 Index: Non-applicable REACH: Non-applicable	<b>1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	Self-classified <b>&lt;1 %</b> 
CAS: 128-37-0 EC: 204-881-4 Index: Non-applicable REACH: 01-2119565113-46-XXXX	<b>2,6-di-tert-butyl-p-cresol<sup>(1)</sup></b> Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	Self-classified <b>&lt;1 %</b> 

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

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

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SECTION 4: FIRST AID MEASURES

**4.1 Description of first aid measures:**

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

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:**

**Suitable 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.

**Unsuitable extinguishing media:**

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.

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

##### **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.:	30 °C
Maximum time:	12 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 (European OEL, not country-specific legislation):

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

##### **DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl 2,3-epoxy-3-phenylbutyrate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 77-83-8	Dermal	Non-applicable	Non-applicable	0,7 mg/kg	Non-applicable
EC: 201-061-8	Inhalation	Non-applicable	Non-applicable	2,45 mg/m <sup>3</sup>	Non-applicable

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Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Undecan-4-olide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 104-67-6	Dermal	Non-applicable	Non-applicable	5,38 mg/kg	Non-applicable
EC: 203-225-4	Inhalation	Non-applicable	Non-applicable	19 mg/m <sup>3</sup>	Non-applicable
a,a-dimethylphenethyl butyrate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 10094-34-5	Dermal	applicable	Non-applicable	8,33 mg/kg	Non-applicable
EC: 233-221-8	Inhalation	Non-applicable	Non-applicable	4,4 mg/m <sup>3</sup>	Non-applicable
Linalool	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-70-6	Dermal	mg/kg	Non-applicable	2,5 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	16,5 mg/m <sup>3</sup>	Non-applicable	2,8 mg/m <sup>3</sup>	Non-applicable
Benzyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 140-11-4	Dermal	applicable	Non-applicable	2,5 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	Non-applicable	Non-applicable	9 mg/m <sup>3</sup>	Non-applicable
Dimethylcyclohex-3-ene-1-carbaldehyde	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 27939-60-2	Dermal	applicable	Non-applicable	2,1 mg/kg	Non-applicable
EC: 248-742-6	Inhalation	Non-applicable	Non-applicable	7,3 mg/m <sup>3</sup>	Non-applicable
2,6-dimethylhept-5-enal	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 106-72-9	Dermal	mg/kg	Non-applicable	2 mg/kg	Non-applicable
EC: 203-427-2	Inhalation	21,16 mg/m <sup>3</sup>	52,89 mg/m <sup>3</sup>	7,05 mg/m <sup>3</sup>	17,63 mg/m <sup>3</sup>
2-ethyl-3-hydroxy-4-pyrone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 4940-11-8	Dermal	Non-applicable	Non-applicable	16,7 mg/kg	Non-applicable
EC: 225-582-5	Inhalation	Non-applicable	Non-applicable	58,7 mg/m <sup>3</sup>	Non-applicable

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethyl 2,3-epoxy-3-phenylbutyrate	Oral	Non-applicable	Non-applicable	0,35 mg/kg	Non-applicable
CAS: 77-83-8	Dermal	Non-applicable	Non-applicable	0,35 mg/kg	Non-applicable
EC: 201-061-8	Inhalation	Non-applicable	Non-applicable	0,61 mg/m <sup>3</sup>	Non-applicable
Undecan-4-olide	Oral	Non-applicable	Non-applicable	2,7 mg/kg	Non-applicable
CAS: 104-67-6	Dermal	Non-applicable	Non-applicable	2,7 mg/kg	Non-applicable
EC: 203-225-4	Inhalation	Non-applicable	Non-applicable	4,68 mg/m <sup>3</sup>	Non-applicable
a,a-dimethylphenethyl butyrate	Oral	Non-applicable	Non-applicable	4,17 mg/kg	Non-applicable
CAS: 10094-34-5	Dermal	Non-applicable	Non-applicable	4,17 mg/kg	Non-applicable
EC: 233-221-8	Inhalation	Non-applicable	Non-applicable	2,2 mg/m <sup>3</sup>	Non-applicable
Linalool	Oral	1,2 mg/kg	Non-applicable	0,2 mg/kg	Non-applicable
CAS: 78-70-6	Dermal	2,5 mg/kg	Non-applicable	1,25 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	4,1 mg/m <sup>3</sup>	Non-applicable	0,7 mg/m <sup>3</sup>	Non-applicable
Benzyl acetate	Oral	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
CAS: 140-11-4	Dermal	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	Non-applicable	Non-applicable	2,2 mg/m <sup>3</sup>	Non-applicable
Dimethylcyclohex-3-ene-1-carbaldehyde	Oral	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
CAS: 27939-60-2	Dermal	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable
EC: 248-742-6	Inhalation	Non-applicable	Non-applicable	2,2 mg/m <sup>3</sup>	Non-applicable
2,6-dimethylhept-5-enal	Oral	85 mg/kg	Non-applicable	1 mg/kg	Non-applicable
CAS: 106-72-9	Dermal	85 mg/kg	Non-applicable	1 mg/kg	Non-applicable
EC: 203-427-2	Inhalation	5,22 mg/m <sup>3</sup>	13,04 mg/m <sup>3</sup>	1,74 mg/m <sup>3</sup>	4,35 mg/m <sup>3</sup>
2-ethyl-3-hydroxy-4-pyrone	Oral	Non-applicable	Non-applicable	10 mg/kg	Non-applicable
CAS: 4940-11-8	Dermal	Non-applicable	Non-applicable	10 mg/kg	Non-applicable
EC: 225-582-5	Inhalation	Non-applicable	Non-applicable	17,4 mg/m <sup>3</sup>	Non-applicable

#### PNEC:

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Identification				
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	STP	10 mg/L	Fresh water	0,008 mg/L
	Soil	0,038 mg/kg	Marine water	0,0084 mg/L
	Intermittent	0,084 mg/L	Sediment (Fresh water)	0,214 mg/kg
	Oral	0,0233 g/kg	Sediment (Marine water)	0,021 mg/kg
Undecan-4-olide CAS: 104-67-6 EC: 203-225-4	STP	80 mg/L	Fresh water	0,084 mg/L
	Soil	1,019 mg/kg	Marine water	0,0084 mg/L
	Intermittent	0,0585 mg/L	Sediment (Fresh water)	5,341 mg/kg
	Oral	0,0667 g/kg	Sediment (Marine water)	0,534 mg/kg
a,a-dimethylphenethyl butyrate CAS: 10094-34-5 EC: 233-221-8	STP	31,25 mg/L	Fresh water	0,004766 mg/L
	Soil	0,103 mg/kg	Marine water	Non-applicable
	Intermittent	Non-applicable	Sediment (Fresh water)	0,189 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
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	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	STP	8,55 mg/L	Fresh water	0,018 mg/L
	Soil	0,094 mg/kg	Marine water	0,002 mg/L
	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,526 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,053 mg/kg
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	STP	13,8 mg/L	Fresh water	0,008 mg/L
	Soil	0,023 mg/kg	Marine water	0,001 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	0,152 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,015 mg/kg
2,6-dimethylhept-5-enal CAS: 106-72-9 EC: 203-427-2	STP	10 mg/L	Fresh water	0,002 mg/L
	Soil	0,021 mg/kg	Marine water	0 mg/L
	Intermittent	0,023 mg/L	Sediment (Fresh water)	0,045 mg/kg
	Oral	0,01 g/kg	Sediment (Marine water)	0,004 mg/kg
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	STP	1,55 mg/L	Fresh water	0,0072 mg/L
	Soil	0,049 mg/kg	Marine water	0,00072 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	0,27 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,027 mg/kg

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

#### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

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



#### D.- Ocular and facial protection

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Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

#### E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

#### F.- Additional emergency measures

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):	14,66 % weight
V.O.C. density at 20 °C:	144,55 kg/m <sup>3</sup> (144,55 g/L)
Average carbon number:	8,89
Average molecular weight:	146,21 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:	Characteristic
Colour:	 Orange
Odour:	Characteristic
Odour threshold:	Non-applicable *

#### Volatility:

Boiling point at atmospheric pressure:	256 °C
Vapour pressure at 20 °C:	22 Pa
Vapour pressure at 50 °C:	142,03 Pa (0,14 kPa)
Evaporation rate at 20 °C:	Non-applicable *

#### Product description:

\*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)

Density at 20 °C:	986 kg/m <sup>3</sup>
Relative density at 20 °C:	0,988 - 1,008
Dynamic viscosity at 20 °C:	1,85 cP
Kinematic viscosity at 20 °C:	1,87 cSt
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	7
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
<b>Flammability:</b>	
Flash Point:	60 - 62 °C
Heat of combustion:	Non-applicable *
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	200 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
<b>Explosive:</b>	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
<b>9.2 Other information:</b>	
Surface tension at 20 °C:	Non-applicable *
Refraction index:	1,465 - 1,485

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

#### SECTION 10: STABILITY AND REACTIVITY

##### 10.1 Reactivity:

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

##### 10.2 Chemical stability:

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

##### 10.3 Possibility of hazardous reactions:

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

##### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

##### 10.5 Incompatible materials:

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

##### 10.6 Hazardous decomposition products:

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### ESENCIA 5720 ART. COMERCIAL MANGO FRUIT

#### SECTION 10: STABILITY AND REACTIVITY (continued)

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION \*\*

##### 11.1 Information on toxicological effects:

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

##### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

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

B- Inhalation (acute effect):

- 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: 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); Benzyl acetate (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. 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:

\*\* Changes with regards to the previous version

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

Identification		Acute toxicity		Genus
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	LD50 oral	3900 mg/kg		Rat
	LD50 dermal	2630 mg/kg		
	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		
Undecan-4-olide CAS: 104-67-6 EC: 203-225-4	LD50 oral	18500 mg/kg		Rat
	LD50 dermal	Non-applicable		
	LC50 inhalation	Non-applicable		
2,6-dimethylhept-5-enal CAS: 106-72-9 EC: 203-427-2	LD50 oral	5500 mg/kg		Rat
	LD50 dermal	Non-applicable		
	LC50 inhalation	Non-applicable		
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	LD50 oral	2490 mg/kg		Rat
	LD50 dermal	Non-applicable		
	LC50 inhalation	Non-applicable		
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8 EC: 225-582-5	LD50 oral	1200 mg/kg		Rat
	LD50 dermal	Non-applicable		
	LC50 inhalation	Non-applicable		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one CAS: 57378-68-4 EC: 260-709-8	LD50 oral	1600 mg/kg		Rat
	LD50 dermal	Non-applicable		
	LC50 inhalation	Non-applicable		
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		

\*\* Changes with regards to the previous version

**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
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	LC50	4.2 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	52 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	36 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Undecan-4-olide CAS: 104-67-6 EC: 203-225-4	LC50	>10 - 100 mg/L (96 h)		Fish
	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
a,a-dimethylphenethyl butyrate CAS: 10094-34-5 EC: 233-221-8	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
Linalool CAS: 78-70-6 EC: 201-134-4	LC50	27.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	59 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	88.3 mg/L (96 h)	Scenedesmus subspicatus	Algae
Mandarin orange, ext. CAS: 84929-38-4 EC: 284-521-0	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	LC50	Non-applicable		
	EC50	17 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae
Dimethylcyclohex-3-ene-1-carbaldehyde CAS: 27939-60-2 EC: 248-742-6	LC50	15 mg/L (96 h)	Oryzias latipes	Fish
	EC50	7.74 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	22.8 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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

Identification		Acute toxicity		Species	Genus
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one CAS: 57378-68-4 EC: 260-709-8	LC50	>0.1 - 1 mg/L (96 h)			Fish
	EC50	>0.1 - 1 mg/L (48 h)			Crustacean
	EC50	>0.1 - 1 mg/L (72 h)			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			

#### 12.2 Persistence and degradability:

Identification		Degradability		Biodegradability	
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	BOD5	Non-applicable	Concentration	100 mg/L	
	COD	Non-applicable	Period	28 days	
	BOD5/COD	Non-applicable	% Biodegradable	53 %	
Linalool CAS: 78-70-6 EC: 201-134-4	BOD5	Non-applicable	Concentration	100 mg/L	
	COD	Non-applicable	Period	28 days	
	BOD5/COD	Non-applicable	% Biodegradable	90 %	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	BOD5	Non-applicable	Concentration	10 mg/L	
	COD	Non-applicable	Period	28 days	
	BOD5/COD	Non-applicable	% Biodegradable	100 %	
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 %	

#### 12.3 Bioaccumulative potential:

Identification		Bioaccumulation potential	
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	39	
	Pow Log	2.97	
	Potential	Moderate	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	BCF	8	
	Pow Log	1.96	
	Potential	Low	
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF	1365	
	Pow Log	5.1	
	Potential	Very High	

#### 12.4 Mobility in soil:

Identification		Absorption/desorption		Volatility	
Ethyl 2,3-epoxy-3-phenylbutyrate CAS: 77-83-8 EC: 201-061-8	Koc	240	Henry	Non-applicable	
	Conclusion	Moderate	Dry soil	Non-applicable	
	Surface tension	Non-applicable	Moist soil	Non-applicable	
Benzyl acetate CAS: 140-11-4 EC: 205-399-7	Koc	Non-applicable	Henry	Non-applicable	
	Conclusion	Non-applicable	Dry soil	Non-applicable	
	Surface tension	3,558E-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·m <sup>3</sup> /mol	
	Conclusion		Dry soil	Yes	
	Surface tension	1,255E-2 N/m (258,85 °C)	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:

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### ESENCIA 5720 ART. COMERCIAL MANGO FRUIT

#### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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, HP13 Sensitising

#### **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 2021 and RID 2021:



- |   |  |
|---|--|
| <b>14.1 UN number:</b>  | UN3082   |
| <b>14.2 UN proper shipping name:</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethyl 2,3-epoxy-3-phenylbutyrate) |
| <b>14.3 Transport hazard class(es):</b>   | 9  |
| Labels:   | 9  |
| <b>14.4 Packing group:</b>  | III  |
| <b>14.5 Environmental hazards:</b>  | Yes  |
| <b>14.6 Special precautions for user</b>  |  |
| Special regulations:  | 274, 335, 375, 601   |
| Tunnel restriction code:  | -  |
| Physico-Chemical properties:  | see section 9  |
| Limited quantities:   | 5 L  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable   |

##### **Transport of dangerous goods by sea:**

With regard to IMDG 39-18:



- |   |  |
|---|--|
| <b>14.1 UN number:</b>  | UN3082   |
| <b>14.2 UN proper shipping name:</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethyl 2,3-epoxy-3-phenylbutyrate) |
| <b>14.3 Transport hazard class(es):</b>   | 9  |
| Labels:   | 9  |
| <b>14.4 Packing group:</b>  | III  |
| <b>14.5 Marine pollutant:</b>   | Yes  |
| <b>14.6 Special precautions for user</b>  |  |
| 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   |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable   |

##### **Transport of dangerous goods by air:**

With regard to IATA/ICAO 2021:

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



- 14.1 UN number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethyl 2,3-epoxy-3-phenylbutyrate)
- 14.3 Transport hazard class(es):** 9  
Labels: 9
- 14.4 II Packing group:**
- 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
E2	ENVIRONMENTAL HAZARDS	200	500

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

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

##### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

##### Other legislation:

The product could be affected by sectorial legislation

##### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

#### SECTION 16: OTHER INFORMATION

##### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

##### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

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

- New declared substances  
2,6-dimethylhept-5-enal (106-72-9)

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

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#### SECTION16: OTHER INFORMATION (continued)

H411: Toxic to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

H315: Causes skin irritation.

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

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

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

Acute Tox. 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 Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

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

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

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

#### **Classification procedure:**

Aquatic Chronic 2: Calculation method

Skin Sens. 1A: Calculation method

Skin Irrit. 2: Calculation method

#### **Advice related to training:**

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

#### **Principal bibliographical sources:**

<http://echa.europa.eu>

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

#### **Abbreviations and acronyms:**

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 -