

# FRAGRANCE OIL - MANGUE TROPICAL

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

## 1.1 Product identifier: FRAGRANCE OIL - MANGUE TROPICAL

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

Relevant uses: Raw materials for the cosmetics and pharmaceuticals industries

Uses advised against: All uses not specified in this section or in section 7.3

### 1.3 Details of the supplier of the safety data sheet:

Fleurs d'Arômes 3A, Avenue Berton 7333 Tertre - Hainaut - Belgique Phone.: 0032479433347 fleursdaromes@hotmail.com https://www.fleursdaromes.be/

1.4 Emergency telephone number: Centre antipoisons: 070/245.245

#### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

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

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411 Skin Sens. 1B: Sensitisation, skin, Category 1B, 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 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
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
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
P391: Collect spillage
P501: Dispose of contents/container according to the separated collection system used in your municipality
Substances that contribute to the classification
Ethyl 2,3-epoxy-3-phenylbutyrate (CAS: 77-83-8)
Acute Toxicity Estimate (ATE mix):

84 % (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:



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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

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

Identification		Chemical name/Classification		Concentratio
CAS: 77-83-8 EC: 201-061-8	Ethyl 2,3-epoxy-3-phen	ylbutyrate <sup>(1)</sup>	Self-classified	
Index: Non-applicable REACH 01-2119967770-28-XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	(!) <b>(%</b> )	20 - <40 %
CAS: 8050-15-5 EC: 232-476-2	Resin acids and Rosin a	cids, hydrogenated, Me esters <sup>(1)</sup>	Self-classified	
Index: Non-applicable REACH 01-2119969275-26-XXXX	Regulation 1272/2008	Aquatic Chronic 3: H412		20 - <40 %
CAS: 120-51-4 EC: 204-402-9	Benzyl benzoate <sup>(1)</sup>		Self-classified	
Index: 607-085-00-9 REACH 01-2119976371-33-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Warning		5 - <20 %
CAS: 140-11-4	Benzyl acetate <sup>(1)</sup>		Self-classified	
EC: 205-399-7 Index: Non-applicable REACH 01-2119638272-42-XXXX	Regulation 1272/2008	Aquatic Chronic 3: H412		2 - <5 %
CAS: 98-55-5 EC: 202-680-6	P-menth-1-en-8-ol <sup>(1)</sup>		Self-classified	
EC: 202-080-0 Index: Non-applicable REACH 01-2119980717-23-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning		2 - <5 %

(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

#### Description of first aid measures: 4.1

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 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:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

# SECTION 5: FIREFIGHTING MEASURES

#### 5.1 **Extinguishing media:**

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

#### 5.2 Special hazards arising from the substance or mixture:



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## SECTION 5: FIREFIGHTING MEASURES (continued)

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

# 5.3 Advice for firefighters:

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

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### 6.2 Environmental precautions:

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

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

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

## 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

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

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

- C.- Technical recommendations to prevent ergonomic and toxicological risks
  - Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
- D.- Technical recommendations to prevent environmental risks

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

#### 7.2 Conditions for safe storage, including any incompatibilities:

- A.- Technical measures for storage
  - Minimum Temp.: 5 °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.



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# 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):

	1000	Shor	t exposure	Long	g exposure
Identification		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
Resin acids and Rosin acids, hydrogenated, Me esters	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 8050-15-5	Dermal	Non-applicable	Non-applicable	6,3 mg/kg	Non-applicable
EC: 232-476-2	Inhalation	Non-applicable	Non-applicable	44,6 mg/m <sup>3</sup>	Non-applicable
Benzyl benzoate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 120-51-4	Dermal	Non-applicable	Non-applicable	2,6 mg/kg	Non-applicable
EC: 204-402-9	Inhalation	102 mg/m <sup>3</sup>	Non-applicable	5,1 mg/m <sup>3</sup>	Non-applicable
Benzyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 140-11-4	Dermal	12,5 mg/kg	Non-applicable	6,25 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	43,8 mg/m <sup>3</sup>	Non-applicable	21,9 mg/m <sup>3</sup>	Non-applicable

# DNEL (General population):

The second se		Shor	t exposure	Lon	g exposure
Identification		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
Resin acids and Rosin acids, hydrogenated, Me esters	Oral	Non-applicable	Non-applicable	3,8 mg/kg	Non-applicable
CAS: 8050-15-5	Dermal	Non-applicable	Non-applicable	3,8 mg/kg	Non-applicable
EC: 232-476-2	Inhalation	Non-applicable	Non-applicable	13,2 mg/m <sup>3</sup>	Non-applicable
Benzyl benzoate	Oral	78 mg/kg	Non-applicable	0,4 mg/kg	Non-applicable
CAS: 120-51-4	Dermal	Non-applicable	Non <mark>-applic</mark> able	1,3 mg/kg	Non-applicable
EC: 204-402-9	Inhalation	25 mg/m <sup>3</sup>	Non-applicable	1,25 mg/m <sup>3</sup>	Non-applicable
Benzyl acetate	Oral	6,25 mg/kg	Non-applicable	3,125 mg/kg	Non-applicable
CAS: 140-11-4	Dermal	6,25 mg/kg	Non-applicable	3,125 mg/kg	Non-applicable
EC: 205-399-7	Inhalation	11 mg/m <sup>3</sup>	Non-applicable	5,5 mg/m <sup>3</sup>	Non-applicable

**PNEC:** 

Identification				
Ethyl 2,3-epoxy-3-phenylbutyrate	STP	10 mg/L	Fresh water	0,0084 mg/L
CAS: 77-83-8	Soil	0,037 mg/kg	Marine water	0,0084 mg/L
EC: 201-061-8	Intermittent	0,084 mg/L	Sediment (Fresh water)	0,012 mg/kg
	Oral	23,3 g/kg	Sediment (Marine water)	0,0012 mg/kg
Resin acids and Rosin acids, hydrogenated, Me esters	STP	1,26 mg/L	Fresh water	0,027 mg/L
CAS: 8050-15-5	Soil	125 mg/kg	Marine water	0,0027 mg/L
EC: 232-476-2	Intermittent	0,27 mg/L	Sediment (Fresh water)	625,79 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	62,58 mg/kg
Benzyl benzoate	STP	100 mg/L	Fresh water	0,0168 mg/L
CAS: 120-51-4	Soil	2,12 mg/kg	Marine water	0,00168 mg/L
EC: 204-402-9	Intermittent	Non-applicable	Sediment (Fresh water)	10,66 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1,07 mg/kg
Benzyl acetate	STP	8,55 mg/L	Fresh water	0,004 mg/L
CAS: 140-11-4	Soil	0,0205 mg/kg	Marine water	0,0004 mg/L
EC: 205-399-7	Intermittent	0,04 mg/L	Sediment (Fresh water)	0,114 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0114 mg/kg



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

Identification				
P-menth-1-en-8-ol	STP	2,6 mg/L	Fresh water	0,068 mg/L
CAS: 98-55-5	Soil	0,329 mg/kg	Marine water	0,0068 mg/L
EC: 202-680-6	Intermittent	Non-applicable	Sediment (Fresh water)	1,85 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,185 mg/kg

#### 8.2 Exposure controls:

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

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not

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.
С	Specific protection	for the hands	1		and the second s
	Pictogram	PPE	Labelling	CEN Standard	Remarks

rictogram	IIL	Labening	CLIV Standard	ixemarks
Mandatory hand protection	Protective gloves against minor risks	CATI		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.	CATI	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	CATI	111	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professionalindustrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
X	Anti-slip work shoes	CATI	EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professionalindustrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>+</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

#### **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:



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

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):V.O.C. density at 20 °C:Average carbon number:Average molecular weight:

11 % weight 113,81 kg/m<sup>3</sup> (113,81 g/L) 7,09 135,97 g/mol

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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:	222 °C
Vapour pressure at 20 °C:	40 Pa
Vapour pressure at 50 °C:	251,57 Pa (0,25 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1034,6 kg/m <sup>3</sup>
Relative density at 20 °C:	1,035
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
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:	68 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	295 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Explosive:	
Lower explosive limit:	Non-applicable *
*Not relevant due to the nature of the product, not providing information	n property of its hazards.



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CTION 10: STABILITY AN	JD REACTIVITY			
l Reactivity:	< 1			
		• :•-h1 d	storage conditions See se	ction 7
No hazardous reactions are ex	xpected because the produc	a is stable under recommended	storage conditions. See set	cuon /.
	xpected because the produc	a is stable under recommended	storage conditions. See set	
			storage conditions. See see	
<b>Chemical stability:</b> Chemically stable under the c	conditions of storage, handl		storage conditions. See see	
<ul> <li>Chemical stability:</li> <li>Chemically stable under the c</li> <li>Possibility of hazardous real</li> </ul>	conditions of storage, handl	ing and use.	/	
<ul> <li>Chemical stability:</li> <li>Chemically stable under the of</li> <li>Possibility of hazardous rea</li> <li>Under the specified condition</li> </ul>	conditions of storage, handl		/	
<ul> <li>2 Chemical stability: Chemically stable under the c</li> <li>3 Possibility of hazardous rea Under the specified condition</li> <li>4 Conditions to avoid:</li> </ul>	conditions of storage, handl actions: hs, hazardous reactions that	ing and use. lead to excessive temperatures	/	
<ul> <li>Chemical stability: Chemically stable under the of</li> <li>Possibility of hazardous real Under the specified condition</li> <li>Conditions to avoid: Applicable for handling and stable</li> </ul>	conditions of storage, handl actions: us, hazardous reactions that storage at room temperature	ing and use. lead to excessive temperatures	or pressure are not expected	ed.
<ul> <li>Chemical stability:</li> <li>Chemically stable under the c</li> <li>Possibility of hazardous rea</li> <li>Under the specified condition</li> <li>Conditions to avoid:</li> </ul>	conditions of storage, handl actions: hs, hazardous reactions that	ing and use. lead to excessive temperatures	/	
<ul> <li>Chemical stability:</li> <li>Chemically stable under the c</li> <li>Possibility of hazardous rea</li> <li>Under the specified condition</li> <li>Conditions to avoid:</li> <li>Applicable for handling and s</li> <li>Shock and friction</li> <li>Not applicable</li> </ul>	conditions of storage, handl actions: as, hazardous reactions that storage at room temperature Contact with air	ing and use. lead to excessive temperatures	or pressure are not expecte	ed. Humidity
<ul> <li>Chemical stability: Chemically stable under the control</li> <li>Possibility of hazardous reader under the specified condition</li> <li>Conditions to avoid: Applicable for handling and sono shock and friction Not applicable</li> </ul>	conditions of storage, handl actions: as, hazardous reactions that storage at room temperature Contact with air	ing and use. lead to excessive temperatures	or pressure are not expecte	ed. Humidity

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: 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 : 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: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: 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):



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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- IARC: Benzyl acetate (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

## E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

## Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	1	Acute toxicity	Genus
Benzyl benzoate	LD50 oral	1500 mg/kg	Rat
CAS: 120-51-4	LD50 dermal	4000 mg/kg	Rabbit
EC: 204-402-9	LC50 inhalation	Non-applicable	
Benzyl acetate	LD50 oral	2490 mg/kg	Rat
CAS: 140-11-4	LD50 dermal	Non-applicable	
EC: 205-399-7	LC50 inhalation	Non-applicable	
P-menth-1-en-8-ol	LD50 oral	4300 mg/kg	Rat
CAS: 98-55-5	LD50 dermal	Non-applicable	
EC: 202-680-6	LC50 inhalation	Non-applicable	

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

	ATE mix	Ingredient(s) of unknown toxicity
Oral	4800 mg/kg (Calculation method)	84 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Ethyl 2,3-epoxy-3-phenylbutyrate	LC50	4.2 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 77-83-8	EC50	52 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-061-8	EC50	36 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Resin acids and Rosin acids, hydrogenated, Me esters	LC50	10 - 100 mg/L (96 h)		Fish
CAS: 8050-15-5	EC50	10 - 100 mg/L		Crustacean
EC: 232-476-2	EC50	10 - 100 mg/L		Algae



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# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Acute toxicity	Species	Genus
Benzyl benzoate	LC50	2.32 mg/L (96 h)	Danio rerio	Fish
CAS: 120-51-4	EC50	3.1 mg/L (48 h)	Daphnia magna	Crustacear
EC: 204-402-9	EC50	0.36 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Benzyl acetate	LC50	Non-applicable		
CAS: 140-11-4	EC50	17 mg/L (48 h)	Daphnia magna	Crustacear
EC: 205-399-7	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae
P-menth-1-en-8-ol	LC50	10 mg/L (96 h)	Salmo gairdneri	Fish
CAS: 98-55-5	EC50	Non-applicable		
EC: 202-680-6	EC50	Non-applicable		

#### 12.2 Persistence and degradability:

Identification	D	egradability	Bio	degradability
Ethyl 2,3-epoxy-3-phenylbutyrate	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 77-83-8	COD	Non-applicable	Period	28 days
EC: 201-061-8	BOD5/COD	Non-applicable	% Biodegradable	53 %
Benzyl benzoate	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 120-51-4	COD	Non-applicable	Period	28 days
EC: 204-402-9	BOD5/COD	Non-applicable	% Biodegradable	94 %
Benzyl acetate	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 140-11-4	COD	Non-applicable	Period	28 days
EC: 205-399-7	BOD5/COD	Non-applicable	% Biodegradable	100 %
P-menth-1-en-8-ol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 98-55-5	COD	Non-applicable	Period	14 days
EC: 202-680-6	BOD5/COD	Non-applicable	% Biodegradable	84,6 %

## 12.3 Bioaccumulative potential:

Identification		Bioaccumulation potential		
Benzyl benzoate	BCF	193		
CAS: 120-51-4	Pow Log	4		
EC: 204-402-9	Potential	High		
Benzyl acetate	BCF	8		
CAS: 140-11-4	Pow Log	1.96		
EC: 205-399-7	Potential	Low		
P-menth-1-en-8-ol	BCF	110		
CAS: 98-55-5	Pow Log	2.98		
EC: 202-680-6	Potential	High		

# 12.4 Mobility in soil:

Identification	Abso	orption/desorption		Volatility
Ethyl 2,3-epoxy-3-phenylbutyrate	Koc	240	Henry	Non-applicable
CAS: 77-83-8	Conclusion	Moderate	Dry soil	Non-applicable
EC: 201-061-8	Surface tension	Non-applicable	Moist soil	Non-applicable
Benzyl benzoate	Koc	6310	Henry	Non-applicable
CAS: 120-51-4	Conclusion	Immobile	Dry soil	Non-applicable
EC: 204-402-9	Surface tension	4,626E-2 N/m (25 °C)	Moist soil	Non-applicable
Benzyl acetate	Koc	Non-applicable	Henry	Non-applicable
CAS: 140-11-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 205-399-7	Surface tension	3,558E-2 N/m (25 °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



# FRAGRANCE OIL - MANGUE TROPICAL

Waste treatment	methods	s:		
Code		Descripti		(Regulation (EU) No 357/2014)
I	t is not poss	ible to assign a specific code, as it depends on		angerous
Type of waste (F	egulation	n (EU) No 1357/2014):	1000	
HP14 Ecotoxic, H	0			
		osal and evaluation):		
0	· •		and disposal operations in accordance with Annex 1 and A	Ammory 2 (Dimostin
			and disposal operations in accordance with Annex 1 and 2 ase the container has been in direct contact with the produ	
processed the san	ne way as	the actual product. Otherwise, it will	be processed as non-dangerous residue. We do not recomm	
down the drain. S				
		ste management:		
In accordance wit stated	th Annex 1	II of Regulation (EC) No 1907/2006 (	REACH) the community or state provisions related to was	ste management :
	lation: Di	rective 2008/98/EC, 2014/955/EU, Re	gulation (EU) No 1357/2014	
Community legis	lation. Di	lective 2000/90/20, 2014/955/20, Re		
	- 1			
TION 14: TRAN	SPORT	INFORMATION		
Transport of d	angerous	goods by land:		
With regard to A	-			
White regulation			1012002	
$\wedge$	14.1 14.2	UN number: UN proper shipping name:	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE.	
AIIN (¥)	14.2	on proper suppling name.	(Ethyl 2,3-epoxy-3-phenylbutyrate)	, LIQUID, N.O.S
9	14.3	Transport hazard class(es):	9	
× ·		Labels:	9	
	14.4	Packing group:	III	
	14.5	Environmental hazards:	Yes	
	14.6	Special precautions for user Special regulations:	274, 335, 375, 601	
		Tunnel restriction code:	Non-applicable	
		Physico-Chemical properties:	see section 9	
		Limited quantities:	5 L	
	14.7	Transport in bulk according to	Non-applicable	
		Annex II of Marpol and the IBC Code:		
Transport of d	angerous			
		•		
With regard to I				
	14.1	UN number:	UN3082	
	14.2	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, (Ethyl 2,3-epoxy-3-phenylbutyrate)	, LIQUID, N.O.S
	14.3	Transport hazard class(es):	9	
9		Labels:	9	
	14.4	Packing group:	III	
	14.5	Environmental hazards:	Yes	
	14.6	Special precautions for user	225.0(0.274	
		Special regulations: EmS Codes:	335, 969, 274 F-A, S-F	
		Physico-Chemical properties:	F-A, S-F see section 9	
		Limited quantities:	5 L	
		Segregation group:	Non-applicable	
	14.7	Transport in bulk according to	Non-applicable	
		Annex II of Marpol and the IBC		
		Code		
Transport of d	naerous	Code:		



# FRAGRANCE OIL - MANGUE TROPICAL

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

	UN number: UN proper shipping name:	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethyl 2,3-epoxy-3-phenylbutyrate)
14.3	Transport hazard class(es):	9
	Labels:	9
14.4	Packing group:	III
14.5	Environmental hazards:	Yes
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

#### SECTION 15: REGULATORY INFORMATION

#### 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		200	500
Limitations t	a commercialisation and the use of cortain dangerous substances and mixtures (Annex Y	VII DEACH ata	).

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

Non-applicable

Specific provisions in terms of protecting people or the environment:

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

# Other legislation:

The product could be affected by sectorial legislation

**Other information:** 

UFI:AU80-80NX-C00E-Y2VA

#### 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:

H411: Toxic to aquatic life with long lasting effects

H317: May cause an allergic skin reaction

# Texts of the legislative phrases mentioned in section 3:

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

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



# FRAGRANCE OIL - MANGUE TROPICAL

1	Acute Tox. 4: H302 - Harmful if swallowed
	Aquatic Acute 1: H400 - Very toxic to aquatic life
1	Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
	Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
1	Eye Irrit. 2: H319 - Causes serious eye irritation Skin Irrit. 2: H315 - Causes skin irritation
	Skin Sens. 1B: H317 - May cause an allergic skin reaction
	Classification procedure:
	Aquatic Chronic 2: Calculation method
	Skin Sens. 1B: Calculation method
A	Advice related to training:
ľ	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.
I	Principal bibliographical sources:
	http://echa.europa.eu
ł	http://eur-lex.europa.eu
ŀ	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
Ι	LD50: Lethal Dose 50
	LC50: Lethal Concentration 50
	EC50: Effective concentration 50
	Log-POW: Octanol-water partition coefficient
ł	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.