

### FRAGRANCE OIL - GARDENIA

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

1.1 Product identifier: FRAGRANCE OIL - GARDENIA

#### 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 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

Eye Irrit. 2: Eye irritation, Category 2, H319

Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

#### 2.2 Label elements:

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

#### Warning





## Hazard statements:

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects

Eye Irrit. 2: H319 - Causes serious eye irritation

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

#### Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P264: Wash thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

P302+P352: IF ON SKIN: Wash with plenty of water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P501: Dispose of contents/container according to the separated collection system used in your municipality

### Supplementary information:

Contains Orange, sweet, ext.

#### Substances that contribute to the classification

Benzyl salicylate (CAS: 118-58-1); Hydroxy-citronellal (CAS: 107-75-5); Linalool (CAS: 78-70-6); Cedryl methyl ketone (CAS: 32388-55-9)

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

46,04 % (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



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

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				
CAS: 120-51-4 EC: 204-402-9	Benzyl benzoate(1)		Self-classified			
EC: 204-402-9 Index: 607-085-00-9 REACH 01-2119976371-33-XXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411 - Warning	<u>(1)</u>	20 - <40 %		
CAS: 8050-15-5 EC: 232-476-2	Resin acids and Rosin	acids, hydrogenated, Me esters <sup>(1)</sup>	Self-classified			
EC: 232-476-2 Index: Non-applicable REACH 01-2119969275-26-XXX	Regulation 1272/2008	Aquatic Chronic 3: H412		20 - <40 %		
CAS: 134-20-3	Methyl anthranilate(1)	The same of the sa	Self-classified			
EC: 205-132-4 Index: Non-applicable REACH 01-2120478941-44-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	(1)	5 - <20 %		
CAS: 118-58-1	Benzyl salicylate(1)	7 (7)	Self-classified			
EC: 204-262-9 Index: Non-applicable REACH 01-2119969442-31-XXXX	Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	•	2 - <5 %		
CAS: 107-75-5	Hydroxy-citronellal(1)		Self-classified			
EC: 203-518-7 Index: Non-applicable REACH 01-2119973482-31-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	<u>(1)</u>	2 - <5 %		
CAS: 140-11-4 EC: 205-399-7	Benzyl acetate(1)		Self-classified			
Index: Non-applicable REACH 01-2119638272-42-XX:	XX Regulation 1272/2008	Aquatic Chronic 3: H412	1	2 - <5 %		
CAS: 78-70-6 EC: 201-134-4	Linalool(1)	30m2 1 / 11 m2	ATP ATP10			
EC: 201-134-4 Index: 603-235-00-2 REACH 01-2119474016-42-XXX	XX Regulation 1272/2008	Skin Sens. 1B: H317 - Warning	1	1 - <2 %		
CAS: 32388-55-9 EC: 251-020-3	Cedryl methyl ketone(1	1 11 11 11 11 11 11 11 11 11 11 11 11 1	Self-classified			
Index: Non-applicable REACH 01-2119969651-28-XX:	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1B: H317 - Warning	<u>(1)</u>	1 - <2 %		
CAS: 68647-72-3 EC: 232-433-8	Orange, sweet, ext.(1)		Self-classified			
Index: Non-applicable REACH 01-2119493353-35-XXXX	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	(!) (i) (i) (ii)	1 - <2 %		
CAS: 81-14-1						
EC: 201-328-9 Index: 609-069-00-7 REACH 01-2120766629-37-XX	XX Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351 - Warning	<b>♦</b>	<1 %		

<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 8, 11, 12, 15 and 16.

## **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

### By inhalation:

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

By skin contact:

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## Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

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

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 eve contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

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

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

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

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

Non-applicable

### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media:

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

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

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

#### 5.3 Advice for firefighters:

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

## 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



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### SECTION 7: HANDLING AND STORAGE (continued)

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

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

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

C.- Technical recommendations to prevent ergonomic and toxicological risks

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

D.- Technical recommendations to prevent environmental risks

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

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

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 20 °C

Maximum time: 18 Mo

Maximum time: 18 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

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

#### DNEL (Workers):

	Short exposure		Long exposure		
Identification		Systemic	Local	Systemic	Local
Benzyl benzoate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 120-51-4	Dermal	Non-applicable	Non-applicable	2,6 mg/kg	Non-applicable
EC: 204-402-9	Inhalation	102 mg/m³	Non-applicable	5,1 mg/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 salicylate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 118-58-1	Dermal	Non-applicable	Non-applicable	0,9 mg/kg	Non-applicable
EC: 204-262-9	Inhalation	Non-applicable	Non-applicable	3,17 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/m³	Non-applicable	21,9 mg/m <sup>3</sup>	Non-applicable
Linalool	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-70-6	Dermal	5 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
Cedryl methyl ketone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 32388-55-9	Dermal	Non-applicable	Non-applicable	0,333 mg/kg	Non-applicable
EC: 251-020-3	Inhalation	Non-applicable	Non-applicable	1,175 mg/m <sup>3</sup>	Non-applicable
Orange, sweet, ext.	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 68647-72-3	Dermal	Non-applicable	Non-applicable	8,89 mg/kg	Non-applicable
EC: 232-433-8	Inhalation	Non-applicable	Non-applicable	31,1 mg/m <sup>3</sup>	Non-applicable

## DNEL (General population):



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

		Shor	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
Benzyl benzoate	Oral	78 mg/kg	Non-applicable	0,4 mg/kg	Non-applicable	
CAS: 120-51-4	Dermal	Non-applicable	Non-applicable	1,3 mg/kg	Non-applicable	
EC: 204-402-9	Inhalation	25 mg/m <sup>3</sup>	Non-applicable	1,25 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 salicylate	Oral	Non-applicable	Non-applicable	0,45 mg/kg	Non-applicable	
CAS: 118-58-1	Dermal	Non-applicable	Non-applicable	0,45 mg/kg	Non-applicable	
EC: 204-262-9	Inhalation	Non-applicable	Non-applicable	0,78 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	
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	
Cedryl methyl ketone	Oral	Non-applicable	Non-applicable	0,166 mg/kg	Non-applicable	
CAS: 32388-55-9	Dermal	Non-applicable	Non-applicable	0,166 mg/kg	Non-applicable	
EC: 251-020-3	Inhalation	Non-applicable	Non-applicable	0,289 mg/m <sup>3</sup>	Non-applicable	
Orange, sweet, ext.	Oral	Non-applicable	Non-applicable	4,44 mg/kg	Non-applicable	
CAS: 68647-72-3	Dermal	Non-applicable	Non-applicable	4,44 mg/kg	Non-applicable	
EC: 232-433-8	Inhalation	Non-applicable	Non-applicable	7,78 mg/m <sup>3</sup>	Non-applicable	

## PNEC:

Identification				
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
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 salicylate	STP	10 mg/L	Fresh water	0,00103 mg/L
CAS: 118-58-1	Soil	0,021 mg/kg	Marine water	0,000103 mg/L
EC: 204-262-9	Intermittent	0,0103 mg/L	Sediment (Fresh water)	0,584 mg/kg
	Oral	80 g/kg	Sediment (Marine water)	0,0584 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
Linalool	STP	10 mg/L	Fresh water	0,2 mg/L
CAS: 78-70-6	Soil	0,327 mg/kg	Marine water	0,02 mg/L
EC: 201-134-4	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg
The second second	Oral	7,8 g/kg	Sediment (Marine water)	0,222 mg/kg
Cedryl methyl ketone	STP	10 mg/L	Fresh water	0,00174 mg/L
CAS: 32388-55-9	Soil	4,87 mg/kg	Marine water	0,000174 mg/L
EC: 251-020-3	Intermittent	0,0086 mg/L	Sediment (Fresh water)	24,4 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	2,44 mg/kg
Orange, sweet, ext.	STP	2,1 mg/L	Fresh water	0,0054 mg/L
CAS: 68647-72-3	Soil	0,261 mg/kg	Marine water	0,00054 mg/L
EC: 232-433-8	Intermittent	0,00577 mg/L	Sediment (Fresh water)	1,3 mg/kg
	Oral	13,3 g/kg	Sediment (Marine water)	0,13 mg/kg

#### 8.2 **Exposure controls:**

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

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

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

B.- Respiratory protection

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

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

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	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.

<sup>&</sup>quot;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.	CATII	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
Ż	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professionalindustrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
//	Anti-slip work shoes	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:

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

V.O.C. (Supply): 13,67 % weight

V.O.C. density at 20 °C: 144,4 kg/m<sup>3</sup> (144,4 g/L)

Average carbon number: 8,68

Average molecular weight: 149,68 g/mol



### FRAGRANCE OIL - GARDENIA

## 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:

Appearance:

Not available

Yellow

Odour:

Not available

Not available

Non-applicable \*

Volatility:

Boiling point at atmospheric pressure: 282 °C
Vapour pressure at 20 °C: 5 Pa

Vapour pressure at 50 °C: 48,23 Pa (0,05 kPa)
Evaporation rate at 20 °C: Non-applicable \*

**Product description:** 

Density at 20 °C: 1056,4 kg/m<sup>3</sup>

Relative density at 20 °C:

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

1,056

142,2 cP

134,61 cSt

Kinematic viscosity at 40 °C:

Non-applicable \*

Concentration: Non-applicable \* pH: Non-applicable \*

Vapour density at 20 °C:

Partition coefficient n-octanol/water 20 °C:

Non-applicable \*

Solubility in water at 20 °C:

Non-applicable \*

Solubility properties:

Non-applicable \*

Decomposition temperature:

Melting point/freezing point:

Explosive properties:

Non-applicable \*

Non-applicable \*

Non-applicable \*

Flammability:

Oxidising properties:

Flash Point: 132 °C

Flammability (solid, gas): Non-applicable \*

Autoignition temperature: 235 °C

Lower flammability limit:

Upper flammability limit:

Non-applicable \*

Non-applicable \*

Explosive:

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

9.2 Other information:

Surface tension at 20 °C:

Refraction index:

Non-applicable \*

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:

Non-applicable \*



### FRAGRANCE OIL - GARDENIA

## SECTION 10: STABILITY AND REACTIVITY (continued)

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

#### 10.2 Chemical stability:

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

### 10.3 Possibility of hazardous reactions:

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

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

#### 10.5 Incompatible materials:

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

### 10.6 Hazardous decomposition products:

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

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

#### 11.1 Information on toxicological effects:

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

#### Dangerous health implications:

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

#### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: 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: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. 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.



### FRAGRANCE OIL - GARDENIA

## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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:

	Identification	1	Acute toxicity	Genus
Benzyl benzoate	10.5	LD50 oral	1500 mg/kg	Rat
CAS: 120-51-4		LD50 dermal	4000 mg/kg	Rabbit
EC: 204-402-9		LC50 inhalation	Non-applicable	
Methyl anthranilate	THE NAME OF THE OWNER,	LD50 oral	2910 mg/kg	Rat
CAS: 134-20-3		LD50 dermal	5100 mg/kg	Rabbit
EC: 205-132-4		LC50 inhalation	Non-applicable	
Benzyl salicylate	- 1	LD50 oral	2200 mg/kg	Rat
CAS: 118-58-1		LD50 dermal	14150 mg/kg	Rabbit
EC: 204-262-9		LC50 inhalation	Non-applicable	
Linalool	70 117	LD50 oral	3000 mg/kg	Rat
CAS: 78-70-6		LD50 dermal	5610 mg/kg	Rabbit
EC: 201-134-4		LC50 inhalation	Non-applicable	1
Benzyl acetate		LD50 oral	2490 mg/kg	Rat
CAS: 140-11-4		LD50 dermal	Non-applicable	
EC: 205-399-7		LC50 inhalation	Non-applicable	

## Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity	
Oral 2250,01 mg/kg (Calculation method) 4		46,04 %	
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	
Benzyl benzoate	LC50	2.32 mg/L (96 h)	Danio rerio	Fish	
CAS: 120-51-4	EC50	3.1 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 204-402-9	EC50	0.36 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae	
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	
Methyl anthranilate	LC50	9.12 mg/L (96 h)	Lepomis macrochirus	Fish	
CAS: 134-20-3	EC50	18.2 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 205-132-4	EC50	Non-applicable			
Benzyl salicylate	LC50	1.03 mg/L (96 h)	Brachydanio rerio	Fish	
CAS: 118-58-1	EC50	1.2 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 204-262-9	EC50	1.3 mg/L (72 h)	Selenastrum capricornutum	Algae	



## FRAGRANCE OIL - GARDENIA

## SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Acute toxicity	Species	Genus
Benzyl acetate	LC50	Non-applicable		
CAS: 140-11-4	EC50	17 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-399-7	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae
Linalool	LC50	27.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 78-70-6	EC50	59 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-134-4	EC50	88.3 mg/L (96 h)	Scenedesmus subspicatus	Algae
Cedryl methyl ketone	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 32388-55-9	EC50	0.1 - 1 mg/L		Crustacean
EC: 251-020-3	EC50	0.1 - 1 mg/L		Algae
Orange, sweet, ext.	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 68647-72-3	EC50	0.1 - 1 mg/L		Crustacear
EC: 232-433-8	EC50	0.1 - 1 mg/L		Algae
4'-tert-butyl-2',6'-dimethyl-3',5'-dinitroacetophenone	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 81-14-1	EC50	0.1 - 1 mg/L		Crustacear
EC: 201-328-9	EC50	0.1 - 1 mg/L		Algae

## 12.2 Persistence and degradability:

Identification	D	egradability	Biodegradability	
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 salicylate	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 118-58-1	COD	Non-applicable	Period	28 days
EC: 204-262-9	BOD5/COD	Non-applicable	% Biodegradable	93 %
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 %
Linalool	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 78-70-6	COD	Non-applicable	Period	28 days
EC: 201-134-4	BOD5/COD	0.55	% Biodegradable	90 %

## 12.3 Bioaccumulative potential:

Identification		Bioaccumulation potential
Benzyl benzoate	BCF	193
CAS: 120-51-4	Pow Log	4
EC: 204-402-9	Potential	High
Methyl anthranilate	BCF	6
CAS: 134-20-3	Pow Log	1.88
EC: 205-132-4	Potential	Low
Benzyl salicylate	BCF	311
CAS: 118-58-1	Pow Log	4
EC: 204-262-9	Potential	High
Benzyl acetate	BCF	8
CAS: 140-11-4	Pow Log	1.96
EC: 205-399-7	Potential	Low
Linalool	BCF	39
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	Moderate
4'-tert-butyl-2',6'-dimethyl-3',5'-dinitroacetophenone	BCF	1380
CAS: 81-14-1	Pow Log	4.3
EC: 201-328-9	Potential	Very High

## 12.4 Mobility in soil:



### FRAGRANCE OIL - GARDENIA

## SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Abso	Absorption/desorption		Volatility	
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 salicylate	Koc	5600	Henry	Non-applicable	
CAS: 118-58-1	Conclusion	Immobile	Dry soil	Non-applicable	
EC: 204-262-9	Surface tension	Non-applicable	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	
4'-tert-butyl-2',6'-dimethyl-3',5'-dinitroacetophenone	Koc	8700	Henry	1,925E-4 Pa·m³/mol	
CAS: 81-14-1	Conclusion	Immobile	Dry soil	Non-applicable	
EC: 201-328-9	Surface tension	Non-applicable	Moist soil	No	

## 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous	

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

HP14 Ecotoxic, HP6 Acute Toxicity

## 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

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:



### FRAGRANCE OIL - GARDENIA

## SECTION 14: TRANSPORT INFORMATION (continued)



14.1 **UN number:** UN3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

> (Benzyl benzoate) 9

14.3 Transport hazard class(es):

Labels: 9

14.4 Packing group: Ш 14.5 **Environmental hazards:** Yes

14.6 Special precautions for user

> 274, 335, 375, 601 Special regulations: Tunnel restriction code: Non-applicable Physico-Chemical properties: see section 9

Limited quantities: 5 L

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:** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 14.2 UN proper shipping name:

(Benzyl benzoate)

9

Transport hazard class(es):

9 Labels: Ш Packing group:

14.4 14.5 **Environmental hazards:** Yes

Special precautions for user

Special regulations: 335, 969, 274 EmS Codes: F-A, S-F Physico-Chemical properties: see section 9 5 L

Limited quantities:

Segregation group: Non-applicable Transport in bulk according to Non-applicable

Annex II of Marpol and the IBC Code:

## Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:



UN3082 14.1 UN number:

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 14.2

(Benzyl benzoate)

9 14.3 Transport hazard class(es):

9 Labels:

14.4 Packing group: III

14.5 **Environmental hazards:** Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9

Transport in bulk according to Non-applicable

Annex II of Marpol and the IBC

Code:

## **SECTION 15: REGULATORY INFORMATION**

14.7

#### 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

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### FRAGRANCE OIL - GARDENIA

## SECTION 15: REGULATORY INFORMATION (continued)

Section	Description	Lower-tier requirements	Upper-tier requirements
E1		100	200

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

## 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:

H400: Very toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects

H317: May cause an allergic skin reaction

H319: Causes serious eye 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

Carc. 2: H351 - Suspected of causing cancer

Eye Irrit. 2: H319 - Causes serious eye irritation

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

Skin Irrit. 2: H315 - Causes skin irritation

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

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

## Classification procedure:

Aquatic Acute 1: Calculation method

Aquatic Chronic 2: Calculation method

Skin Sens. 1B: Calculation method

Eye 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:



### FRAGRANCE OIL - GARDENIA

## SECTION 16: OTHER INFORMATION (continued)

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 -

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