

## **Safety Data Sheet**

according to UN GHS (ST/SG/AC.10/11/Rev.10)

## NATURAL DECANAL 50% ENRICHED ORANGE OIL FRACTION

Revision date: 19.11.2024 Product code: 236210WW Page 1 of 14

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

NATURAL DECANAL 50% ENRICHED ORANGE OIL FRACTION

CAS No: 68606-94-0

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

#### Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

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

Company name: Axxence Aromatic GmbH

Street: Tackenweide 28

Place: D-46446 Emmerich am Rhein

Telephone: + 49 2822 68561 0 Telefax: + 49 2822 68561 39

E-mail: info@axxence.com

Contact person: Safety Team Telephone: + 49 2822 68561 0

E-mail: safety-documentation@axxence.com

Internet: www.axxence.de
Responsible Department: Safety Management

1.4. Emergency telephone +49 2822 68561 99

number:

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### UN GHS (ST/SG/AC.10/11/Rev.10)

Flammable liquid: Flam. Liq. 4 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3 Hazardous to the aquatic environment: Aquatic Acute 2

## 2.2. Label elements

### UN GHS (ST/SG/AC.10/11/Rev.10)

# Hazard components for labelling

NATURAL LINALOOL NATURAL CITRAL NATURAL CITRONELLAL PERILLA ALDEHYDE

Signal word: Warning

Pictograms:



#### **Hazard statements**

H227 Combustible liquid.

H315+H319 Causes skin irritation and serious eye irritation.

H317 May cause an allergic skin reaction.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.



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### **Precautionary statements**

P210	Keep away from heat, not surfaces, sparks, open flames and other ignition sources. No
	smoking.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

protection.

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

P333+P317 If skin irritation or rash occurs: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P317 If eye irritation persists: Get medical help.

P370+P378 In case of fire: Use Foam / Dry extinguishing powder / Carbon dioxide (CO2) / Water spray

to extinguish.

P403 Store in a well-ventilated place.

P501 Dispose of contents/container to organic waste.

### 2.3. Other hazards

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59. This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures



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## Relevant ingredients

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)	50 - 100 %
	Eye Irrit. 2, Aquatic Acute 2; H319 H401	
78-70-6	NATURAL LINALOOL	10 - 25 %
	Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, Aquatic Acute 3; H303 H315 H319 H317 H402	
5392-40-5	NATURAL CITRAL	2,5 - 10 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 2; H315 H319 H317 H401	
98-55-5	NATURAL ALPHA-TERPINEOL	2,5 - 10 %
	Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 3; H303 H315 H319 H402	
106-23-0	NATURAL CITRONELLAL	2,5 - 10 %
	Acute Tox. 5, Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 2; H313 H303 H315 H319 H317 H401	
562-74-3	NATURAL 4-TERPINENOL	1 - 2,5 %
	Acute Tox. 4, Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2; H302 H313 H315 H319	
111-87-5	NATURAL 1-OCTANOL	1 - 2,5 %
	Eye Irrit. 2, Aquatic Acute 2, Aquatic Chronic 3; H319 H401 H412	
2111-75-3	PERILLA ALDEHYDE	1 - 2,5 %
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1A; H302 H315 H319 H317	
106-22-9	NATURAL CITRONELLOL	<1 %
	Acute Tox. 5, Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 2; H313 H303 H315 H319 H317 H401	
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	<1 %
_	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H304 H400 H410	

### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

## After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

## After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water.

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

No information available.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media



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### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable. Vapours can form explosive mixtures with air.

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

## Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advice on safe handling

No special measures are necessary.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

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

## Requirements for storage rooms and vessels

Keep container tightly closed.

## Hints on joint storage

No special measures are necessary.

# SECTION 8: Exposure controls/personal protection



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### 8.1. Control parameters

### 8.2. Exposure controls





#### Individual protection measures, such as personal protective equipment

#### Eve/face protection

Suitable eye protection: goggles.

#### Hand protection

Suitable gloves type: Disposable gloves + NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Use of protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: light yellow

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

195 °C

boiling range:

Flammability: not determined Lower explosion limits: 0,9 vol. % Upper explosion limits: 5,2 vol. % 85 °C Flash point: 195 °C Auto-ignition temperature: Decomposition temperature: not determined pH-Value: not determined Water solubility: Nο

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 0,16 hPa

(at 20 °C)

Vapour pressure: 2 hPa

(at 50 °C)

Density (at 20 °C): 0,85 g/cm³ Relative vapour density: not determined

## 9.2. Other information

## Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive. not explosive according to EU A.14



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Oxidizing properties

The product is not: oxidising.

## Other safety characteristics

Evaporation rate: not determined Solvent content: 0% Solid content: 0%

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

## 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

## **Acute toxicity**

Based on available data, the classification criteria are not met.

## ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l



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CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
112-31-2	NATURAL ALDEHYD	E C-10 (DEC								
	oral	LD50 mg/kg	>5000	Rat	REACH Dossier					
	dermal	LD50 mg/kg	>5000	Rabbit	REACH Dossier					
78-70-6	NATURAL LINALOOL									
	oral	LD50 mg/kg	2790	Rat	REACH registration	OECD 401				
	dermal	LD50 mg/kg	5610	Rabbit	REACH registration	OECD 402				
5392-40-5	NATURAL CITRAL									
	oral	LD50 mg/kg	6800	Rat	REACH registration					
	dermal	LD50 mg/kg	>2000	Rat	REACH registration					
98-55-5	NATURAL ALPHA-TE	ERPINEOL								
	oral	LD50 mg/kg	4300	Rat	REACH Dossier	OECD 401				
	dermal	LD50 mg/kg	>2000	Rat	REACH Dossier	OECD 402				
106-23-0	NATURAL CITRONE	LLAL			<u> </u>					
	oral	LD50 mg/kg	2423	Rat	REACH Registration	OECD 401				
	dermal	LD50 mg/kg	>2500	Rabbit	REACH Registration					
562-74-3	NATURAL 4-TERPIN	ENOL								
	oral	LD50 mg/kg	1300	Rat	REACH registration	OECD 401				
	dermal	LD50 mg/kg	>2500	Rabbit	REACH registration	OECD 402				
111-87-5	NATURAL 1-OCTANO	OL								
	oral	LD50 mg/kg	>5000	Rat	REACH Registration	OECD 401				
	dermal	LD50 mg/kg	>5000	Rat	REACH Registration	EPA OPPTS 870.1200				
2111-75-3	PERILLA ALDEHYDE									
	oral	LD50 mg/kg	1720	Mouse						
	dermal	LD50 mg/kg	>5000	Pig						
106-22-9	NATURAL CITRONE	LLOL		_						
	oral	LD50 mg/kg	3450	Rat	REACH Registration					
	dermal	LD50 mg/kg	2650	Rabbit	REACH Registration					
5989-27-5	(R)-p-mentha-1,8-dier	ne, d-limonene	e							
	oral	LD50 mg/kg	5300	Rat	IFA GESTIS					



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dermal	LD50	>5000	Rabbit	REACH registration	OECD 402
	mg/kg				

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

### Sensitising effects

May cause an allergic skin reaction. (NATURAL LINALOOL; NATURAL CITRAL; NATURAL CITRONELLAL; PERILLA ALDEHYDE; NATURAL CITRONELLOL; (R)-p-mentha-1.8-diene, d-limonene)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

## **Endocrine disrupting properties**

No information available.

#### Other information

No information available.

## **Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name									
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method			
112-31-2	NATURAL ALDEHYDE C	-10 (DECA	NAL)							
	Acute fish toxicity	LC50 mg/l	1,45	96 h	Oncorhynchus mykiss (Rainbow trout)	REACH Dossier	OECD 203			
	Acute algae toxicity	ErC50	4,5 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Dossier	OECD 201			
	Acute crustacea toxicity	EC50 mg/l	1,17	48 h	Daphnia magna (Big water flea)	REACH Dossier	OECD 202			
	Acute bacteria toxicity	EC50 )	70 mg/l (	3 h	Activated sludge	REACH Dossier	OECD 209			
78-70-6	NATURAL LINALOOL									
	Acute fish toxicity	LC50 mg/l	27,8	96 h	Oncorhynchus mykiss (Rainbow trout)	REACH registration	OECD 203			
	Acute algae toxicity	ErC50 mg/l	88,3	96 h	Desmodesmus subspicatus	REACH registration	DIN 38412 L9			
	Acute crustacea toxicity	EC50	59 mg/l	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202			
	Acute bacteria toxicity	EC50 mg/l ( )	>100	0,5 h	Activated sludge	REACH registration	OECD 209			
392-40-5	NATURAL CITRAL									
	Acute fish toxicity	LC50 mg/l	6,78	96 h	Leuciscus idus (golden orfe)	REACH registration	DIN 38412 L			
	Acute algae toxicity	ErC50 mg/l	103,8	72 h	Desmodesmus subspicatus	REACH registration	DIN 38412 L9			
	Acute crustacea toxicity	EC50	6,8 mg/l	48 h	Daphnia magna (Big water flea)	REACH registration	Directive 79/831 EWG, C2 annex V			
	Acute bacteria toxicity	EC50	160 mg/l	0,5 h	Activated sludge	REACH registration	OECD 209			
8-55-5	NATURAL ALPHA-TERP	INEOL								
	Acute fish toxicity	LC50	70 mg/l	96 h	Danio rerio (zebrafish)	REACH Registration	OECD 203			
	Acute algae toxicity	ErC50	68 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration	OECD 201			
	Acute crustacea toxicity	EC50	73 mg/l		Daphnia magna (Big water flea)	REACH Registration	OECD 202			
06-23-0	NATURAL CITRONELLA	L								
	Acute fish toxicity	LC50	22 mg/l	96 h	Leuciscus idus (golden orfe)	REACH Registration	OECD 203			
	Acute algae toxicity	ErC50 mg/l	13,33	72 h	Desmodesmus subspicatus	REACH Registration	DIN 38412, Part			
	Acute crustacea toxicity	EC50	8,7 mg/l	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202			
11-87-5	NATURAL 1-OCTANOL									
	Acute fish toxicity	LC50 mg/l	13,3	96 h	Pimephales promelas (fathead minnow)	REACH Registration	OECD 203			
	Acute algae toxicity	ErC50	6,5 mg/l		Desmodesmus subspicatus	REACH Registration	OECD 201			
	Acute crustacea toxicity	EC50	20 mg/l	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202			



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	Fish toxicity	NOEC	1,5 mg/l	7 d	Pimephales promelas (fathead minnow)	REACH Registration	
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna (Big water flea)	REACH Registration	OECD 211
	Acute bacteria toxicity	EC50	350 mg/l	3 h	Activated sludge	REACH Registration	OECD 209
106-22-9	NATURAL CITRONELLO	L					
	Acute fish toxicity	LC50 mg/l	14,66	96 h	Leuciscus idus (golden orfe)	REACH registration	DIN 38 412, part L15
	Acute algae toxicity	ErC50	2,4 mg/l	72 h	Desmodesmus subspicatus	REACH registration	
	Acute crustacea toxicity	EC50 mg/l	17,48	48 h	Daphnia magna (Big water flea)	REACH registration	EU Directive 79/831/EEC, Annex V, part C
	Fish toxicity	NOEC	4,6 mg/l	4 d	Leuciscus idus (golden orfe)	REACH registration	DIN 38 412, part L15
	Crustacea toxicity	NOEC	3,1 mg/l	2 d	Daphnia magna (Big water flea)	REACH registration	EU Directive 79/831/EEC, Annex V, part C
	Acute bacteria toxicity	EC50 mg/l ( )	>10000	0,5 h	Pseudomonas putida	REACH registration	DIN 38412 Part 27
5989-27-5	(R)-p-mentha-1,8-diene, o	d-limonene					
	Acute fish toxicity	LC50 mg/l	0,72	96 h	Pimephales promelas (fathead minnow)	REACH registration	OECD 203
	Acute algae toxicity	ErC50 mg/l	0,32	72 h	Pseudokirchneriella subcapitata	REACH registration	OECD 201
	Acute crustacea toxicity	EC50 mg/l	0,307	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202
	Fish toxicity	NOEC mg/l	0,37	8 d	Pimephales promelas (fathead minnow)	REACH Registration	OECD 212
	Acute bacteria toxicity	EC50	209 mg/l	3 h	Activated sludge	REACH registration	OECD 209

# 12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name									
	Method	Value	d	Source						
	Evaluation		•	•						
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)									
	OECD 301F	50%	7	REACH Registration						
	Readily biodegradable (according to OECD criteria).	•		•						
	OECD 301F	76%	21	REACH Registration						
	Readily biodegradable (according to OECD criteria).		_	•						
	OECD 301F	82%	28	REACH Registration						
	Readily biodegradable (according to OECD criteria).		-							
78-70-6	NATURAL LINALOOL									
	OECD 301D	64,2%	28	REACH registration						
	Readily biodegradable (according to OECD criteria).									
	OECD 301D	60,5%	15	REACH registration						
	Readily biodegradable (according to OECD criteria).	-	-	-						
	OECD 301D	40,9%	5	REACH registration						
	Readily biodegradable (according to OECD criteria).	•	-	•						
392-40-5	NATURAL CITRAL									
	OECD 301C	85-95%	28	REACH registration						
	Readily biodegradable (according to OECD criteria).		-							
98-55-5	NATURAL ALPHA-TERPINEOL									
	OECD 310	80%	28	REACH Registration						
	Readily biodegradable (according to OECD criteria).									
	OECD 310	60%	12	REACH Registration						
	Readily biodegradable (according to OECD criteria).	•		•						
	OECD 310	10%	5	REACH Registration						
	Readily biodegradable (according to OECD criteria).									
106-23-0	NATURAL CITRONELLAL									
	OECD 301B	83%	28	REACH Registration						
	Readily biodegradable (according to OECD criteria).									
	OECD 301B	63%	14	REACH Registration						
	Readily biodegradable (according to OECD criteria).									
	OECD 301B	22%	5	REACH Registration						
	Readily biodegradable (according to OECD criteria).									
562-74-3	NATURAL 4-TERPINENOL									
		79%	28	REACH registration						
	ready biodegradability									
11-87-5	NATURAL 1-OCTANOL									
	OECD 301B	92%	28	REACH Registration						
	Readily biodegradable (according to OECD criteria).									
06-22-9	NATURAL CITRONELLOL			_						
	OECD 301 F	90%	28	REACH Registration						
	Readily biodegradable (according to OECD criteria).			_						
	OECD 301 F	72%	14	REACH Registration						
	Readily biodegradable (according to OECD criteria).			_						
	OECD 301 F	37%	5	REACH Registration						
	Readily biodegradable (according to OECD criteria).									
989-27-5	(R)-p-mentha-1,8-diene, d-limonene									
	OECD 301D	80%	28	REACH Registration						



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OECD 301D	71%	14	REACH Registration			
Readily biodegradable (according to OECD criteria).						
OECD 301D	41%	7	REACH Registration			
Readily biodegradable (according to OECD criteria).						

## 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)	3,8
78-70-6	NATURAL LINALOOL	2,97
5392-40-5	NATURAL CITRAL	2,76
98-55-5	NATURAL ALPHA-TERPINEOL	2,67
106-23-0	NATURAL CITRONELLAL	3,62
562-74-3	NATURAL 4-TERPINENOL	3,26
111-87-5	NATURAL 1-OCTANOL	3,5
2111-75-3	PERILLA ALDEHYDE	3,053
106-22-9	NATURAL CITRONELLOL	3,55
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,5

#### **BCF**

CAS No	Chemical name	BCF	Species	Source
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)	309		
5392-40-5	NATURAL CITRAL	89,72	-	REACH Dossier
98-55-5	NATURAL ALPHA-TERPINEOL	32,4		
106-23-0	NATURAL CITRONELLAL	113,6		REACH Registration
111-87-5	NATURAL 1-OCTANOL	9,1		
106-22-9	NATURAL CITRONELLOL	82,59		REACH registration
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	690,1	aquatic species	REACH registration

## 12.4. Mobility in soil

The product has not been tested.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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## **SECTION 14: Transport information**

Marine transport (IMDG)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

## **SECTION 15: Regulatory information**

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

# **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 2,11.



## **Safety Data Sheet**

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## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

## **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)