

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

NATURAL DECANAL 25% ENRICHED ORANGE OIL FRACTION

Revision date: 27.07.2023 Product code: 236200WW Page 1 of 14

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

1.1. Product identifier

NATURAL DECANAL 25% 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 CITRONELLAL NATURAL CITRAL PERILLA ALDEHYDE NATURAL CITRONELLOL

(R)-p-mentha-1,8-diene, d-limonene

Signal word: Warning

Pictograms:



Hazard statements

H227 Combustible liquid. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot 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 Carbon dioxide (CO2) / Foam / Extinguishing powder to extinguish.

P403 Store in a well-ventilated place.

P501 Dispose of contents/container to organic waste.

2.3. Other hazards

No information available.

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)	45 - < 50 %
	Eye Irrit. 2, Aquatic Acute 2; H319 H401	
78-70-6	NATURAL LINALOOL	20 - < 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	5 - < 10 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 2; H315 H319 H317 H401	
106-23-0	NATURAL CITRONELLAL	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	
98-55-5	NATURAL ALPHA-TERPINEOL	5 - < 10 %
	Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 3; H303 H315 H319 H402	
562-74-3	NATURAL 4-TERPINENOL	1 - < 5 %
	Acute Tox. 4, Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2; H302 H313 H315 H319	
111-87-5	NATURAL 1-OCTANOL	1 - < 5 %
	Eye Irrit. 2, Aquatic Acute 2, Aquatic Chronic 3; H319 H401 H412	
2111-75-3	PERILLA ALDEHYDE	1 - < 5 %
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1A; H302 H315 H319 H317	
106-22-9	NATURAL CITRONELLOL	1 - < 5 %
	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 - < 5 %
	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.

Carbon dioxide (CO2) / Foam / Extinguishing powder

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.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls





Individual protection measures, such as personal protective equipment

Eye/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: >35 °C
Boiling point or initial boiling point and 195 °C

boiling range:

Flammability: not determined Lower explosion limits: 0.9 vol. % Upper explosion limits: 6,1 vol. % Flash point: 75 °C 195 °C Auto-ignition temperature: Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: 18 mm²/s

Water solubility: The study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

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

(at 20 °C)

(at 20 °C)

Vapour pressure: 2 hPa

(at 50 °C)

Density (at 20 °C): 0,86 g/cm³



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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

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 ALDEHYI	DE C-10 (DEC	ANAL)					
	oral	LD50 mg/kg	>5000	Rat	REACH Dossier			
	dermal	LD50 mg/kg	>5000	Rabbit	REACH Dossier			
78-70-6	NATURAL LINALOO	L						
	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			
106-23-0	NATURAL CITRONE	LLAL						
	oral	LD50 mg/kg	2423	Rat	REACH Registration	OECD 401		
	dermal	LD50 mg/kg	>2500	Rabbit	REACH Registration			
98-55-5	NATURAL ALPHA-TERPINEOL							
	oral	LD50 mg/kg	4300	Rat	REACH Dossier	OECD 401		
	dermal	LD50 mg/kg	>2000	Rat	REACH Dossier	OECD 402		
562-74-3	NATURAL 4-TERPIN	NENOL						
	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-OCTAN	IOL						
	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 ALDEHYD	Ε			·			
	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-die		e					
	oral	LD50 mg/kg	5300	Rat	IFA GESTIS			



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dermal LD50 >5000 Rab	REACH registration OECD 402
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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

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

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		
5392-40-5	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		
106-23-0	NATURAL CITRONELLAL								
	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 9		
	Acute crustacea toxicity	EC50	8,7 mg/l	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202		
98-55-5	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	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202		
111-87-5	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		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,	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).								
06-23-0	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).								
8-55-5	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).								
62-74-3	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).								
106-22-9	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).								
5989-27-5	(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
106-23-0	NATURAL CITRONELLAL	3,62
98-55-5	NATURAL ALPHA-TERPINEOL	2,67
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
106-23-0	NATURAL CITRONELLAL	113,6		REACH Registration
98-55-5	NATURAL ALPHA-TERPINEOL	32,4		
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.



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

NATURAL DECANAL 25% ENRICHED ORANGE OIL FRACTION

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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.)