

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NATURAL LINALOOL EX BOIS DE ROSE

Revision date: 20.12.2022

Product code: 263510

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

1.1. Product identifier

NATURAL LINALOOL EX BOIS DE ROSE

CAS No: 8015-77-8
UFI: 4HSH-4RYE-X00V-MVAQ

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
E-mail: info@axxence.com
Contact person: Safety Team
E-mail: safety-documentation@axxence.com
Internet: www.axxence.de
Responsible Department: Safety Management

Telefax: + 49 2822 68561 39

Telephone: + 49 2822 68561 0

1.4. Emergency telephone number:

+49 2822 68561 99

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

NATURAL LINALOOL EX BOIS DE ROSE
NATURAL GERANIOL
NATURAL alpha-TERPINOLEN

Signal word: Warning

Pictograms:



Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

- | | |
|----------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| 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+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| 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+P313 | If eye irritation persists: Get medical advice/attention. |
| P501 | Dispose of contents/container to organic waste. |

Special labelling of certain mixtures

1 - < 5 per cent of the mixture consists of component(s) of unknown acute toxicity (inhalation).

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
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE			90 - 95 %
	201-134-4			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
98-55-5	NATURAL ALPHA-TERPINEOL			0 - 2 %
	202-680-6		01-2119980717-23	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
106-24-1	NATURAL GERANIOL			0 - 1 %
	203-377-1			
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317			
123-35-3	NATURAL MYRCENE			0 - 1 %
	204-622-5			
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H319 H304 H400 H410			
586-62-9	NATURAL alpha-TERPINOLEN			0 - 1 %
	209-578-0			
	Flam. Liq. 3, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H317 H304 H400 H410			
13877-91-3	NATURAL LINALOOL OXIDE			0 - 1 %
	237-641-2			
	Flam. Liq. 3, Asp. Tox. 1; H226 H304			
562-74-3	NATURAL 4-TERPINENOL			0 - 1 %
	209-235-5			
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
1365-19-1	NATURAL LINALOOL OXIDE			0 - 1 %
	215-723-9			
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
78-70-6	201-134-4	NATURAL LINALOOL EX BOIS DE ROSE	90 - 95 %
		dermal: LD50 = 5610 mg/kg; oral: LD50 = 2790 mg/kg	
98-55-5	202-680-6	NATURAL ALPHA-TERPINEOL	0 - 2 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 4300 mg/kg	
106-24-1	203-377-1	NATURAL GERANIOL	0 - 1 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 3600 mg/kg	
123-35-3	204-622-5	NATURAL MYRCENE	0 - 1 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >11390 mg/kg	
586-62-9	209-578-0	NATURAL alpha-TERPINOLEN	0 - 1 %
		inhalation: Data lacking (gases); dermal: LD50 = >5000 mg/kg; oral: LD50 = 4390 mg/kg	
13877-91-3	237-641-2	NATURAL LINALOOL OXIDE	0 - 1 %
		dermal: LD50 = >5000 mg/kg	
562-74-3	209-235-5	NATURAL 4-TERPINENOL	0 - 1 %
		dermal: LD50 = >2500 mg/kg; oral: LD50 = 1300 mg/kg	
1365-19-1	215-723-9	NATURAL LINALOOL OXIDE	0 - 1 %
		dermal: LD50 = 2500 mg/kg; oral: LD50 = 1150 mg/kg	

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 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

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray jet,

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.

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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.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE			
Worker DNEL, long-term		inhalation	systemic	2,8 mg/m³
Worker DNEL, acute		inhalation	systemic	16,5 mg/m³
Worker DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	5 mg/kg bw/day
Worker DNEL, long-term		dermal	local	15 mg/cm²
Worker DNEL, acute		dermal	local	15 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	0,7 mg/m³
Consumer DNEL, acute		inhalation	systemic	4,1 mg/m³
Consumer DNEL, long-term		dermal	systemic	1,25 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	15 mg/cm²
Consumer DNEL, acute		dermal	local	15 mg/cm²
Consumer DNEL, long-term		oral	systemic	0,2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	1,2 mg/kg bw/day
106-24-1	NATURAL GERANIOL			
Worker DNEL, long-term		inhalation	systemic	161,6 mg/m³
Worker DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day
Worker DNEL, long-term		dermal	local	11,8 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	47,8 mg/m³
Consumer DNEL, long-term		dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	11,8 mg/cm²
Consumer DNEL, long-term		oral	systemic	13,75 mg/kg bw/day
123-35-3	NATURAL MYRCENE			
Worker DNEL, long-term		inhalation	systemic	5,83 mg/m³
Worker DNEL, long-term		dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,25 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,42 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,42 mg/kg bw/day

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PNEC values

CAS No	Name of agent	
Environmental compartment		Value
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE	
Freshwater		0,2 mg/l
Freshwater (intermittent releases)		2 mg/l
Marine water		0,02 mg/l
Freshwater sediment		2,22 mg/kg
Marine sediment		0,222 mg/kg
Secondary poisoning		7,8 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,327 mg/kg
98-55-5	NATURAL ALPHA-TERPINEOL	
Freshwater		0,068 mg/l
Marine water		0,0068 mg/l
Freshwater sediment		1,85 mg/kg
Marine sediment		0,185 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,6 mg/l
Soil		0,329 mg/kg
106-24-1	NATURAL GERANIOL	
Freshwater		0,011 mg/l
Freshwater (intermittent releases)		0,108 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,115 mg/kg
Marine sediment		0,011 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,7 mg/l
Soil		0,017 mg/kg
123-35-3	NATURAL MYRCENE	
Freshwater		0,008 mg/l
Marine water		0,0008 mg/l
Freshwater sediment		5,022 mg/kg
Marine sediment		0,502 mg/kg
Secondary poisoning		2,78 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,2 mg/l
Soil		1,015 mg/kg

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

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Hand protection

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:	
Melting point/freezing point:	N/A
Boiling point or initial boiling point and boiling range:	> 197 °C
Flammability:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not determined
Flash point:	>77 °C
Auto-ignition temperature:	260 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility: (at 25 °C)	1,56 g/l
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	2,9
Vapour pressure: (at 20 °C)	0,1 hPa
Vapour pressure: (at 50 °C)	2 hPa
Density (at 20 °C):	0,86 g/cm³
Relative vapour density: (at 20 °C)	5,31

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

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%
Viscosity / dynamic: (at 20 °C)	5,55 mPa·s

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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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE				
	oral	LD50 2790 mg/kg	Rat	REACH Registration	OECD 401
	dermal	LD50 5610 mg/kg	Rabbit	REACH Registration	OECD 402
98-55-5	NATURAL ALPHA-TERPINEOL				
	oral	LD50 4300 mg/kg	Rat	REACH Dossier	OECD 401
	dermal	LD50 >2000 mg/kg	Rat	REACH Dossier	OECD 402
106-24-1	NATURAL GERANIOL				
	oral	LD50 3600 mg/kg	Rat	REACH registration	
	dermal	LD50 >5000 mg/kg	Rabbit	REACH registration	
123-35-3	NATURAL MYRCENE				
	oral	LD50 >11390 mg/kg	Rat	REACH registration	
	dermal	LD50 >5000 mg/kg	Rabbit	REACH registration	OECD 402
586-62-9	NATURAL alpha-TERPINOLEN				
	oral	LD50 4390 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
	inhalation	Data lacking			
13877-91-3	NATURAL LINALOOL OXIDE				
	dermal	LD50 >5000 mg/kg	rabbit		
562-74-3	NATURAL 4-TERPINENOL				
	oral	LD50 1300 mg/kg	Rat	REACH registration	OECD 401
	dermal	LD50 >2500 mg/kg	Rabbit	REACH registration	OECD 402
1365-19-1	NATURAL LINALOOL OXIDE				
	oral	LD50 1150 mg/kg	Rat		
	dermal	LD50 2500 mg/kg	Rabbit		

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 EX BOIS DE ROSE; NATURAL GERANIOL; NATURAL alpha-TERPINOLEN)

Carcinogenic/mutagenic/toxic effects for reproduction

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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.

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
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE					
	Acute fish toxicity	LC50 27,8 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	REACH Registration	OECD 203
	Acute algae toxicity	ErC50 88,3 mg/l	96 h	Desmodesmus subspicatus	REACH Registration	DIN 38412 L 9
	Acute crustacea toxicity	EC50 59 mg/l	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202
	Acute bacteria toxicity	EC50 >101 mg/l ()	0,5 h	Activated Sludge	REACH Registration	OECD 209
98-55-5	NATURAL ALPHA-TERPINEOL					
	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
106-24-1	NATURAL GERANIOL					
	Acute fish toxicity	LC50 22 mg/l	96 h	Danio rerio (zebrafish)	REACH Registration	OECD 203
	Acute algae toxicity	ErC50 13,1 mg/l	72 h	Desmodesmus subspicatus	REACH Registration	OECD 201
	Acute crustacea toxicity	EC50 10,8 mg/l	48 h	Daphnia magna (Big water flea)	REACH Registration	OECD 202
	Acute bacteria toxicity	EC50 70 mg/l ()	0,5 h	Activated sludge	REACH Registration	OECD 209
123-35-3	NATURAL MYRCENE					
	Acute fish toxicity	LC50 1,3 mg/l	96 h	Danio rerio (zebrafish)	REACH registration	OECD 203
	Acute algae toxicity	ErC50 0,34 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration	OECD 201
	Acute crustacea toxicity	EC50 1,47 mg/l	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202
586-62-9	NATURAL alpha-TERPINOLEN					
	Acute fish toxicity	LC50 0,72 mg/l	96 h	Pimephalis promelas		

12.2. Persistence and degradability

The product has not been tested.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE			
	OECD 301D	64	28	
	Readily biodegradable			
	OECD 301D	60,5	15	
	Readily biodegradable			
	OECD 301D	40,9	5	
	Readily biodegradable			
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).			
106-24-1	NATURAL GERANIOL			
	OECD 301A	90-100%	3	
	Readily biodegradable			
123-35-3	NATURAL MYRCENE			
	OECD 301D	76%	28	REACH registration
	Readily biodegradable (according to OECD criteria).			
	OECD 301D	65%	14	REACH registration
	Readily biodegradable (according to OECD criteria).			
	OECD 301D	42%	7	REACH registration
	Readily biodegradable (according to OECD criteria).			
586-62-9	NATURAL alpha-TERPINOLEN			
		51%	28	
	Partially biodegradable			
562-74-3	NATURAL 4-TERPINENOL			
		79%	28	REACH registration
	ready biodegradability			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE	2,9
98-55-5	NATURAL ALPHA-TERPINEOL	2,67
106-24-1	NATURAL GERANIOL	2,6
123-35-3	NATURAL MYRCENE	4,82
586-62-9	NATURAL alpha-TERPINOLEN	4,47
562-74-3	NATURAL 4-TERPINENOL	3,26
1365-19-1	NATURAL LINALOOL OXIDE	1,375

BCF

CAS No	Chemical name	BCF	Species	Source
98-55-5	NATURAL ALPHA-TERPINEOL	32,4		

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12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

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.

Inland waterways transport (ADN)

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.

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.

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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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Directive 2010/75/EU on industrial emissions: 97,25 % (836,35 g/l)

Directive 2004/42/EC on VOC in paints and varnishes: 99,25 % (853,55 g/l)

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,14,15,16.

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Abbreviations and acronyms

Flam. Liq: Flammable liquid
 Acute Tox: Acute toxicity
 Asp. Tox: Aspiration hazard
 Skin Irrit: Skin irritation
 Eye Dam: Eye damage
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard
 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).

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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1		-	4	28	-	-	-	-	Flavour

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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