

# Safety Data Sheet

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

## NATURAL LINALOOL EX BOIS DE ROSE

Revision date: 20.12.2022

Product code: 263510WW

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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

#### 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 number:

+49 2822 68561 99

### 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  
 Acute toxicity: Acute Tox. 5 (oral)  
 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 3

#### 2.2. Label elements

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

##### Hazard components for labelling

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

Signal word: Warning

Pictograms:



##### Hazard statements

H227	Combustible liquid.
H303	May be harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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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.

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.

P301+P317 IF SWALLOWED: Get medical help.

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.

P403 Store in a well-ventilated place.

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

#### Relevant ingredients

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
78-70-6	NATURAL LINALOOL EX BOIS DE ROSE	90 - < 95 %
	Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, Aquatic Acute 3; H303 H315 H319 H317 H402	
98-55-5	NATURAL ALPHA-TERPINEOL	1 - < 5 %
	Acute Tox. 5, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 3; H303 H315 H319 H402	
106-24-1	NATURAL GERANIOL	1 - < 5 %
	Acute Tox. 5, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 3; H303 H315 H318 H317 H402	
123-35-3	NATURAL MYRCENE	1 - < 5 %
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2A, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H319 H304 H400 H410	
586-62-9	NATURAL alpha-TERPINOLEN	1 - < 5 %
	Flam. Liq. 3, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 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.

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### 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.

## 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

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### 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

### 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

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
	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	>77 °C

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Auto-ignition temperature:	260 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	1,56 g/l
(at 25 °C)	
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	2,9
Vapour pressure:	0,1 hPa
(at 20 °C)	
Vapour pressure:	2 hPa
(at 50 °C)	
Density (at 20 °C):	0,86 g/cm³
Relative vapour density:	5,31
(at 20 °C)	

### 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

## 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

May be harmful if swallowed.

#### ATEmix calculated

ATE (oral) 2904 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
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			

### 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

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].

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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			

### 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

### BCF

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

### 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



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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.

## SECTION 14: Transport information

### Marine transport (IMDG)

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

### Air transport (ICAO-TI/IATA-DGR)

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

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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.)*