

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## NATURAL BETA-PINENE

Revision date: 09/16/2022

Product code: 290300US

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### 1. Identification

#### Product identifier

NATURAL BETA-PINENE

Substance name: NATURAL BETA-PINENE  
CAS No: 127-91-3

#### Recommended use of the chemical and restrictions on use

##### Use of the substance/mixture

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

#### 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	

**Emergency phone number:** +49 2822 68561 99

### 2. Hazard(s) identification

#### Classification of the chemical

##### **29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 3  
Skin corrosion/irritation: Skin Irrit. 2  
Respiratory or skin sensitization: Skin Sens. 1  
Aspiration hazard: Asp. Tox. 1  
Hazardous to the aquatic environment: Aquatic Acute 1  
Hazardous to the aquatic environment: Aquatic Chronic 1

#### Label elements

##### **29 CFR Part 1910.1200**

**Signal word:** Danger

**Pictograms:**



#### **Hazard statements**

Flammable liquid and vapor  
May be fatal if swallowed and enters airways  
Causes skin irritation  
May cause an allergic skin reaction

#### **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.

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Take precautionary measures against static discharge.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wash hands thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: Immediately call a poison center/doctor.  
 Do NOT induce vomiting.  
 If on skin: Wash with plenty of Water and soap.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents/container to Organic waste.

### Hazards not otherwise classified

No information available.

## 3. Composition/information on ingredients

### Substances

Sum formula: C10 H16  
 Molecular weight: 136,24 g/mol

### Relevant ingredients

CAS No	Components	Quantity
127-91-3	NATURAL BETA-PINENE	100 %

## 4. First-aid measures

### Description of first aid measures

#### **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. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No information available.

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

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing media**

Carbon dioxide (CO2), Foam, Extinguishing powder.

#### **Unsuitable extinguishing media**

Water.

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### Specific hazards arising from the chemical

Flammable. Vapors may form explosive mixtures with air.

### Special protective equipment and precautions for fire-fighters

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/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

### 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.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

#### 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.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

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### 8. Exposure controls/personal protection

#### Control parameters

#### Exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category	Origin
127-91-3	Selected monoterpenes: pin-2(10)-ene	20	112	TWA (8 h)	ACGIH-2024

#### Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

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

##### Eye/face protection

Wear eye protection/face protection.

##### 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. Suitable gloves type: NBR (Nitrile rubber) + Natural fibres (e.g. cotton)

##### Skin protection

Use of protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Melting point/freezing point:	- 61 °C
Boiling point or initial boiling point and boiling range:	166 °C
Flammability:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	39 °C
Decomposition temperature:	255 °C
pH-Value:	not determined
Viscosity / kinematic: (at 40 °C)	not determined
Water solubility: (at 20 °C)	1,9 mm <sup>2</sup> /s
Solubility in other solvents	0,007 g/l
Partition coefficient n-octanol/water:	not determined
	4,4

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Vapor pressure: 5,19 hPa  
(at 20 °C)  
Vapor pressure: 16,2 hPa  
(at 50 °C)  
Density (at 20 °C): 0,87 g/cm<sup>3</sup>  
Relative vapour density: 4,1  
(at 20 °C)

### Other information

#### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate: not determined  
Solvent content: 0%  
Solid content: 0%  
Viscosity / dynamic: 2,2 mPa·s  
(at 20 °C)

## 10. Stability and reactivity

### Reactivity

Flammable.

### Chemical stability

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

No known hazardous reactions.

### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

### Incompatible materials

No information available.

### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
127-91-3	NATURAL BETA-PINENE				
	oral	LD50 >5000 mg/kg	Rat	REACH Dossier	
	dermal	LD50 >5000 mg/kg	Rabbit	REACH Dossier	

#### Irritation and corrosivity

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Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

### Sensitizing effects

May cause an allergic skin reaction (NATURAL BETA-PINENE)

### 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.

### Specific target organ toxicity (STOT) - single exposure

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

### Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

### Aspiration hazard

May be fatal if swallowed and enters airways

### 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]. Specific hazards arising from the chemical!

## 12. Ecological information

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

CAS No	Components					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
127-91-3	NATURAL BETA-PINENE					
	Acute fish toxicity	LC50 mg/l	0,502	96 h	Pimephales promelas (fathead minnow)	REACH Dossier OECD 203
	Acute algae toxicity	ErC50 mg/l	0,826	72 h	Pseudokirchneriella subcapitata	REACH Dossier OECD 201
	Acute crustacea toxicity	EC50	1,2 mg/l	48 h	Daphnia magna (Big water flea)	REACH Dossier OECD 202
	Acute bacteria toxicity	EC50 ( )	326 mg/l		Activated sludge	REACH Dossier OECD 209

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Components	Log Pow
127-91-3	NATURAL BETA-PINENE	4,4

### BCF

CAS No	Components	BCF	Species	Source
127-91-3	NATURAL BETA-PINENE	838		REACH Dossier

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### Mobility in soil

The product has not been tested.

### Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### 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.

## 13. Disposal considerations

### 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**

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

### **U.S. DOT 49 CFR 172.101**

**UN number or ID number:**

UN 2319

**Proper shipping name:**

TERPENE HYDROCARBONS, N.O.S.

**Transport hazard class(es):**

3

**Packing group:**

III

Hazard label:

3



### **Marine transport (IMDG)**

**UN number or ID number:**

UN 2319

**UN proper shipping name:**

TERPENE HYDROCARBONS, N.O.S.

**Transport hazard class(es):**

3

**Packing group:**

III

Hazard label:

3



Special Provisions:

-

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-E, S-D

Segregation group:

heavy metals and their salts (including their organometallic compounds)

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

**UN number or ID number:**

UN 2319

**UN proper shipping name:**

TERPENE HYDROCARBONS, N.O.S.

**Transport hazard class(es):**

3

**Packing group:**

III

Hazard label:

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Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: beta-PINENE

### Special precautions for user

Warning: Combustible liquid.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 311/312 Hazards:

NATURAL BETA-PINENE (127-91-3): Fire hazard, Immediate (acute) health hazard

### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

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Revision No: 101



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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).

### Other data

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.