

according to 29 CFR 1910.1200(g)

# NATURAL GAMMA-TERPINENE

Revision date: 02/20/2025

Product code: 355920US

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## 1. Identification

# **Product identifier**

NATURAL GAMMA-TERPINENE

Substance name: CAS No:

NATURAL GAMMA-TERPINENE

99-85-4

# 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 Reproductive toxicity: Repr. 2 Aspiration hazard: Asp. Tox. 1 Hazardous to the aquatic environment: Aquatic Acute 2 Hazardous to the aquatic environment: Aquatic Chronic 2

# Label elements

## 29 CFR Part 1910.1200

Signal word:

## **Pictograms:**



# Hazard statements

Flammable liquid and vapor May be fatal if swallowed and enters airways Suspected of damaging fertility or the unborn child Toxic to aquatic life with long lasting effects

#### **Precautionary statements**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.



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Use only non-sparking tools. Take precautionary measures against static discharge. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. Collect spillage. In case of fire: Use sand, earth, extinguishing powder or foam to extinguish. Store in a well-ventilated place. Keep cool. Store locked up.

# 3. Composition/information on ingredients

# **Substances**

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

## **Relevant ingredients**

CAS No	Components	Quantity
99-85-4	NATURAL GAMMA-TERPINENE	100 %

#### 4. First-aid measures

# **Description of first aid measures**

## After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

# After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

# 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.

## Specific hazards arising from the chemical

Flammable. Vapors may form explosive mixtures with air.

# Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.



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# Additional information

Use water spray jet to protect personnel and to cool endangered containers. Supress 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 exhaustion 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.

# 8. Exposure controls/personal protection

# Control parameters

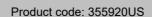
## Exposure controls



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# 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: Disposable gloves + NBR (Nitrile rubber)

#### 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:		-70 °C
Boiling point or initial boiling point and		182 °C
boiling range:		
Flammability:		not applicable
		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		52 °C
Auto-ignition temperature:		250 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		0,008 g/l
(at 20 °C)		
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		5,4
Vapor pressure:		0,87 hPa
(at 20 °C)		
Density (at 20 °C):		0,85 g/cm <sup>3</sup>
Relative vapour density:		4,7
(at 20 °C)		
Other information		
Information with regard to physical ha	zard classes	

Explosive properties

The product is not: Explosive.



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Product code: 355920US Revision date: 02/20/2025 Page 5 of 9 Oxidizing properties The product is not: oxidising. Other safety characteristics Evaporation rate: not determined Solvent content: 0% 0% Solid content:

# 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
99-85-4	NATURAL GAMMA-TERF	PINENE				
	oral	LD50 mg/kg	3650	Rat	REACH Dossier	OECD 423
	dermal	LD50 mg/kg	>2000	Rat	REACH Dossier	OECD 402

## Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

# Sensitizing effects

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

# Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child (NATURAL GAMMA-TERPINENE) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: 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.





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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**

Toxic to aquatic life with long lasting effects.

CAS No	Components						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
99-85-4	NATURAL GAMMA-TER	PINENE					
	Acute fish toxicity	LC50 mg/l	2,79	96 h	Danio rerio (zebrafish)	REACH Dossier	OECD 203
	Acute algae toxicity	ErC50 mg/l	>10,82		Scenedesmus quadricauda	REACH Dossier	OECD 201
	Acute crustacea toxicity	EC50 mg/l	10,189		Daphnia magna (Big water flea)	REACH Dossier	OEDC 202
	Acute bacteria toxicity	EC50 mg/l()	>1000	3 h	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
99-85-4	NATURAL GAMMA-TERPINENE	5,4

# 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



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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.
	3
Transport hazard class(es):	3 III
Packing group:	
Hazard label:	3
	3
Marine transport (IMDG)	
UN number or ID number:	UN 2319
UN proper shipping name:	TERPENE HYDROCARBONS, N.O.S.
<u>Transport hazard class(es):</u>	3
Packing group:	III
Hazard label:	3
	3
Special Provisions:	_ <b>•</b>
Limited quantity:	- 5 L
Excepted quantity:	E1
EmS:	F-E, S-D
	1- <u></u> , 0-D
Air transport (ICAO-TI/IATA-DGR)	UN 2319
UN number or ID number:	
UN proper shipping name:	TERPENE HYDROCARBONS, N.O.S.
Transport hazard class(es):	3
<u>Packing group:</u> Hazard label:	
	3
	3
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:	NATURAL GAMMA-TERPINENE
Special precautions for user	
Warning: Combustible liquid.	
Transport in bulk according to Annex II of M	ARPOL 73/78 and the IBC Code

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



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not applicable

# 15. Regulatory information

# U.S. Regulations

# National regulatory information

SARA Section 311/312 Hazards:

NATURAL GAMMA-TERPINENE (99-85-4): Fire 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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# 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 DMFL: 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.