

## Safety Data Sheet

## NATURAL THIO MENTHONE (P-MENTHA-8-THIOL-3-ONE)

Revision date: 08/07/2023

Product code: 317710US

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**1. Identification****Product identifier**

NATURAL THIO MENTHONE (P-MENTHA-8-THIOL-3-ONE)

CAS No: 38462-22-5

EC No: 253-953-1

**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
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Internet:	www.axxence.de	
Responsible Department:	QM - Regulatory Affairs	

**Emergency phone number:** +49 2822 68561 99**2. Hazard(s) identification****Classification of the chemical****Regulation (EC) No 1272/2008**

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

**Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

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**Signal word:** Warning**Pictograms:****Hazard statements**

H317 May cause an allergic skin reaction

**Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of Water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to Organic waste.

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#### Special labelling of certain mixtures

95 - < 100 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

### 3. Composition/information on ingredients

#### Mixtures

Sum formula: C10 H18 OS

Molecular weight: 186,32

#### Hazardous components

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
38462-22-5	NATURAL THIO MENTHONE (P-MENTHA-8-THIOL-3-ONE)			99,1 - 100 %
	253-953-1			
	Skin Sens. 1; H317			
89-82-7	NATURAL PULEGONE			0 - 0,99 %
	201-943-2			
	Carc. 2, Acute Tox. 4; H351 H302			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
	Specific Conc. Limits, M-factors and ATE		
89-82-7	201-943-2	NATURAL PULEGONE	0 - 0,99 %
	dermal: LD50 = 3090 mg/kg; oral: LD50 = 470 mg/kg		

### 4. First-aid measures

#### 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

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

##### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water.

#### 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

Co-ordinate fire-fighting measures to the fire surroundings.

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#### Specific hazards arising from the chemical

Non-flammable.

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

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

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**

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### Environmental precautions

Do not allow to enter into surface water or drains.

#### 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**

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.

#### 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.

#### Specific end use(s)

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

## 8. Exposure controls/personal protection

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#### Control parameters

#### Exposure controls



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

##### Eye/face protection

Wear eye/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.

##### 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:	gelb	
Odor:	schwarze Johannisbeere	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		270 °C
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		108 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		practically insoluble
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		2,5
Vapor pressure:		not determined
Density (at 25 °C):		1,00 g/cm <sup>3</sup>
Relative vapour density:		not determined

### Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive. not hazard of explosion according to EU A.14

##### Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

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Evaporation rate:	not determined
Solvent content:	0%
Solid content:	0%

#### 10. Stability and reactivity

##### Reactivity

No hazardous reaction when handled and stored according to provisions.

##### Chemical stability

The product is stable under storage at normal ambient temperatures.

##### Possibility of hazardous reactions

No known hazardous reactions.

##### Conditions to avoid

none/none

##### 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
89-82-7	NATURAL PULEGONE				
	oral	LD50 mg/kg	470	Rat	SDS MERCK MILLIPORE
	dermal	LD50 mg/kg	3090	Rabbit	SDS MERCK MILLIPORE

###### **Irritation and corrosivity**

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

###### **Sensitizing effects**

May cause an allergic skin reaction (NATURAL THIO MENTHONE (P-MENTHA-8-THIOL-3-ONE))

###### **Carcinogenic/mutagenic/toxic effects for reproduction**

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.

###### **Aspiration hazard**

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

##### 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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## 12. Ecological information

### Ecotoxicity

The product is not: Ecotoxic.

CAS No	Components					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
38462-22-5	NATURAL THIO MENTHONE (P-MENTHA-8-THIOL-3-ONE)					
	Aquatic toxicity	Data lacking				
89-82-7	NATURAL PULEGONE					
	Acute crustacea toxicity	EC50 mg/l	24,4	48 h	Daphnia pulex (water flea)	SDS SIGMA ALDRICH

### 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
38462-22-5	NATURAL THIO MENTHONE (P-MENTHA-8-THIOL-3-ONE)	2,624
89-82-7	NATURAL PULEGONE	3,08

### BCF

CAS No	Components	BCF	Species	Source
89-82-7	NATURAL PULEGONE	50		

### Mobility in soil

The product has not been tested.

### 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.

### 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.

No information available.

### 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.

#### 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

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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.

### 14. Transport information

#### Land transport (ADR/RID)

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

#### Inland waterways transport (ADN)

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

#### Marine transport (IMDG)

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

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

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

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

### 15. Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC):	0,5 % (5 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

##### National regulatory information

Employment restrictions:	Observe employment restrictions for young people.
Water hazard class (D):	3 - highly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

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#### Chemical Safety Assessment

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

#### 16. Other information

##### Abbreviations and acronyms

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  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 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  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 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)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 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).

##### Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

##### Relevant H statements (full text)

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer

##### 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.



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