

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

## NATURAL PROPYL MERCAPTAN

Revision date: 22.01.2025

Product code: 352100WW

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

### 1.1. Product identifier

NATURAL PROPYL MERCAPTAN

Substance name:	NATURAL PROPYL MERCAPTAN
CAS No:	107-03-9

#### 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	+49 2822 68561 99	

### number:

## 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. 2 Acute toxicity: Acute Tox. 4 (oral) Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1B Specific target organ toxicity - single exposure: STOT SE 3 (respiratory tract irritation) Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 1

## 2.2. Label elements

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

Signal word: Danger

#### **Pictograms:**



#### **Hazard statements**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

P210



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		smoking.
	P233	Keep container tightly closed.
	P240	Ground and bond container and receiving equipment.
	P241	Use explosion-proof electrical/ventilating/lighting equipment.
	P242	Use non-sparking tools.
	P243	Take action to prevent static discharges.
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264+P265	Wash hands [and] thoroughly after handling. Do not touch eyes.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	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.
	P330	Rinse mouth.
	P302+P352	IF ON SKIN: Wash with plenty of Water and soap.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
		water or shower.
	P333+P317	If skin irritation or rash occurs: Get medical help.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P319	Get medical help if you feel unwell.
	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.
	P370+P378	In case of fire: Use Dry extinguishing powder / Foam / Carbon dioxide (CO2) to extinguish.
	P391	Collect spillage.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P405	Store locked up.
	P501	Dispose of contents/container to organic waste.
. 0	ther hazards	

## 2.3. Other hazards

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59.

This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH.

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Sum formula:	C3 H8 S
Molecular weight:	76,1623 g/mol

#### **Relevant ingredients**

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
107-03-9	NATURAL PROPYL MERCAPTAN	100%
	Flam. Liq. 2, Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1B, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H225 H302 H319 H317 H335 H400 H410	

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures



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

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#### 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

Rinse mouth immediately and drink 1 glass of of water. Medical treatment necessary.

#### 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

Carbon dioxide (CO2), Foam, Extinguishing powder.

### Unsuitable extinguishing media

Water.

#### 5.2. Special hazards arising from the substance or mixture

Highly 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

Remove all sources of ignition. 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 uncontrolled discharge of product into the environment. Explosion risk.

#### 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.

### 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

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

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### Advice on safe handling

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

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can 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.

#### 7.2. 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.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.2. Exposure controls











#### Appropriate engineering controls

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

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

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

Suitable gloves type: Butyl caoutchouc (butyl rubber).

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.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

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#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Melting point/freezing point:

-113 °C



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Boiling point or initial boiling point and	68 °C	
boiling range:		
Flammability:	not determined	
Lower explosion limits:	1,77 vol. %	
Upper explosion limits:	not determined	
Flash point:	-20 °C	
Auto-ignition temperature:	280 °C	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic:	not determined	
Water solubility:	1,9 g/l	
(at 25 °C)		
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	165 hPa	
(at 20 °C)		
Vapour pressure:	550 hPa	
(at 50 °C)		
Density:	0,84 g/cm³	
Relative density:	2,63	
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Information with regard to physical hazard c	lasses	
Explosive properties		
The product is not: Explosive.		
Oxidizing properties		
The product is not: oxidising.		

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Highly flammable.

## 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

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

## 10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

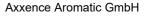
No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

## Acute toxicity

Harmful if swallowed.





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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
107-03-9	NATURAL PROPYL MEI	RCAPTAN				
	oral	LD50 mg/kg	1864	Rat	REACH registration	UBTL protocol no. 04-50
	dermal	LD50 mg/kg	>2000	Rabbit	REACH registration	OECD 402
	inhalation (4 h) vapour	LC50 mg/l	>5663	Rat	REACH registration	OECD 436

#### Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

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

#### Sensitising effects

May cause an allergic skin reaction. (NATURAL PROPYL MERCAPTAN)

### 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

May cause respiratory irritation. (NATURAL PROPYL MERCAPTAN)

#### 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.

## Other information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
107-03-9	NATURAL PROPYL MER	RCAPTAN							
	Acute fish toxicity	LC50	1,3 mg/l		Pimephales promelas (fathead minnow)	REACH registration	OECD 203		
	Acute algae toxicity	ErC50 mg/l	0,75	72 h	Pseudokirchneriella subcapitata	REACH registration	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	0,07	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202		
	Fish toxicity	NOEC mg/l	0,76		Pimephales promelas (fathead minnow)	REACH registration	OECD 203		
	Algae toxicity	NOEC mg/l	0,83	3 d	Pseudokirchneriella subcapitata	REACH registration	OECD 201		
	Crustacea toxicity	NOEC mg/l	0,055	2 d	Daphnia magna (Big water flea)	REACH registration	OECD 202		



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## 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
107-03-9	NATURAL PROPYL MERCAPTAN			
107-03-9	NATURAL PROPYL MERCAPTAN OECD 301 D	17%	28	REACH registration

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-03-9	NATURAL PROPYL MERCAPTAN	1,81

### 12.4. Mobility in soil

The product has not been tested.

## 12.6. Endocrine disrupting properties

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

#### 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.

## 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)

14.1. UN number or ID number:	UN 2402
14.2. UN proper shipping name:	PROPANETHIOLS
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D
Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u>	UN 2402

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<u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	PROPANETHIOLS 3 II 3	
Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	1 L Y341 E2 353 5 L 364 60 L	
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:	Yes	
ENVIRONMENTALLT HAZARDOUS.	Tes 🔛	
Danger releasing substance:	PROPYL MERCAPTAN	
<ul> <li><u>14.6. Special precautions for user</u> Warning: Combustible liquid.</li> <li><u>14.7. Maritime transport in bulk according</u> not applicable</li> </ul>	to IMO instruments	
SECTION 15: Regulatory information		
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juv work protection guideline' (94/33/EC).	venile
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.	
SECTION 16: Other information		



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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 EC/EEC: European Community/European Economic Community EU: European Union 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 M-factor: Multiplying factor 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 DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization TI: Technical Instructions MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: volatile organic compound SVHC: Substance of Very High Concern 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.