



according to 29 CFR 1910.1200(g)

NATURAL PROPYL MERCAPTAN

Revision date: 01/22/2025

Product code: 352100US

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1. Identification

Product identifier

NATURAL PROPYL MERCAPTAN

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

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. 2 Acute toxicity: Acute Tox. 4 (oral) Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitization: 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

Label elements

29 CFR Part 1910.1200

Signal word:	Danger	
Pictograms:		
Hazard statements		

Hazard statements

Highly flammable liquid and vapor Harmful if swallowed May cause an allergic skin reaction Causes serious eye irritation May cause respiratory irritation Very toxic to aquatic life with long lasting effects

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.



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Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

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.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use Dry extinguishing powder / Foam / Carbon dioxide (CO2) to extinguish.

Collect spillage.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container to Organic waste.

3. Composition/information on ingredients

Substances

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

Relevant ingredients

CAS No	Components	Quantity
107-03-9	NATURAL PROPYL MERCAPTAN	100%

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

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.

Most important symptoms and effects, both acute and delayed

No information available.



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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

Highly 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. 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.

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.

Conditions for safe storage, including any incompatibilities



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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 limits

CAS No	Substance	ppm	mg/m³	Category	Origin
107-03-9	1-Propanethiol	C 0.5	C 1.6	15 min	REL

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

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid	
Color:	Colourless to pale yellow	
Melting point/freezing point:		-113 °C
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



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Decomposition temperature:	not determined			
pH-Value:	not determined			
Viscosity / kinematic:	not determined			
Water solubility: (at 25 °C) Solubility in other solvents	1,9 g/l			
not determined				
Partition coefficient n-octanol/water:	not determined			
Vapor pressure: (at 20 °C)	165 hPa			
Vapor pressure: (at 50 °C)	550 hPa			
Density:	0,84 g/cm³			
Relative density:	2,63			
Relative vapour density:	not determined			
Particle characteristics:	not applicable			
Other information				
Information with regard to physical hazard classes				
Explosive properties				
The product is not: Explosive.				
Oxidizing properties				
The product is not: oxidising.				
10. Stability and reactivity				

Reactivity

Highly 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

Harmful if swallowed



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CAS No	Components						
	Exposure route	Dose		Species	Source	Method	
107-03-9	NATURAL PROPYL ME	NATURAL PROPYL MERCAPTAN					
	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.

Sensitizing 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.

Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation (NATURAL PROPYL MERCAPTAN)

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

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

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).

12. Ecological information

Ecotoxicity

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects



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CAS No	Components						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
107-03-9	NATURAL PROPYL MERCAPTAN						
	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	4 d	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

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
107-03-9	NATURAL PROPYL MERCAPTAN	1,81

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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

U.S. DOT 49 CFR 172.101

<u>UN number or ID number:</u>	UN 2402
Proper shipping name:	PROPANETHIOLS
Transport hazard class(es):	3
Packing group:	11
Hazard label:	3



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Marine transport (IMDG) <u>UN number or ID number:</u> <u>UN proper shipping name:</u> <u>Transport hazard class(es):</u> <u>Packing group:</u> Hazard label:	UN 2402 PROPANETHIOLS 3 II 3	
Special Provisions: Limited quantity: Excepted quantity: EmS:	- 1 L E2 F-E, S-D	
Air transport (ICAO-TI/IATA-DGR) <u>UN number or ID number:</u> <u>UN proper shipping name:</u> <u>Transport hazard class(es):</u> <u>Packing group:</u> Hazard label:	UN 2402 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	
Environmental hazards ENVIRONMENTALLY HAZARDOUS:	Yes	¥z
Danger releasing substance: <u>Special precautions for user</u> Warning: Combustible liquid. <u>Transport in bulk according to Annex II of I</u> not applicable	PROPYL MERCAPTAN	
15. Regulatory information		
U.S. Regulations National regulatory information		

SARA Section 311/312 Hazards:

NATURAL PROPYL MERCAPTAN (107-03-9): Fire hazard, Immediate (acute) health hazard

State Regulations



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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 Revision date: 01/22/2025 Revision No: 100 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: Multiplication 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).

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.