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

1.1. Product identifier

NATURAL METHYL MERCAPTAN 1% IN PG

UFI:

R368-SSVY-T00G-1MKN

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	

1.4. Emergency telepho

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Warning

Hazard statements

H226	Flammable liquid and vapour.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

recautionary stat	ements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No 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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing



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P303+P361+P353	protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
P370+P378	In case of fire: Use Water spray jet / Dry extinguishing powder / Carbon dioxide (CO2) / alcohol resistant foam to extinguish.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/container to organic waste.	
Special labelling of cert	ain mixtures	

1 - < 5 per cent of the mixture consists of component(s) of unknown acute toxicity (oral).
1 - < 5 per cent of the mixture consists of component(s) of unknown acute toxicity (dermal).

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

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulatio				
57-55-6	PROPYLENE GLYCOL				
	200-338-0		01-2119456809-23		
74-93-1	NATURAL METHYL MERCAPTAN				
	200-822-1	016-021-00-3			
	Flam. Gas 1, Dissolved gas, Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 1; H220 H280 H331 H400 H410				

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

Specific Co	Specific Conc. Limits, M-factors and ATE					
CAS No	EC No	Chemical name	Quantity			
	Specific Conc.	Limits, M-factors and ATE				
57-55-6	200-338-0	PROPYLENE GLYCOL	98,5-99,0%			
	dermal: LD50 = 20800 mg/kg; oral: LD50 = 22000 mg/kg					
74-93-1	200-822-1	NATURAL METHYL MERCAPTAN	1,0-1,5%			
	inhalation: LC50 = 6,5 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); inhalation: LC50 = 675 ppm (gases); dermal: Data lacking; oral: Data lacking					

Further Information

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 4: First aid measures

4.1. Description of first aid measures



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After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink 1 glass of of water.

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

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

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

Additional information

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

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.

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.

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

Advice on safe handling

No special measures are necessary.



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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

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. 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.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent						
DNEL type	e Exposure route Effect Value						
57-55-6	PROPYLENE GLYCOL	PROPYLENE GLYCOL					
Worker DNEL, long-term inhalation systemic 168 mg/m³							
Worker DNEL,	ter DNEL, long-term inhalation local 10 mg/m ³						
Consumer DNEL, long-term inhalation systemic 50 mg/m ³							
Consumer DNEL, long-term inhalation local 10 mg/m ³							
74-93-1	93-1 NATURAL METHYL MERCAPTAN						
Worker DNEL, long-terminhalationsystemic0,76 mg/m³							



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PNEC values

CAS No	Name of agent	
Environmen	Value	
57-55-6	PROPYLENE GLYCOL	
Freshwater		260 mg/l
Freshwater	(intermittent releases)	183 mg/l
Marine wate	r	26 mg/l
Freshwater	sediment	572 mg/kg
Marine sedi	ment	57,2 mg/kg
Micro-organisms in sewage treatment plants (STP)		20000 mg/l
Soil		50 mg/kg
74-93-1	NATURAL METHYL MERCAPTAN	
Freshwater		0,00132 mg/l
Marine wate	r	0,00013 mg/l
Micro-organ	isms in sewage treatment plants (STP)	2 mg/l
Freshwater sediment		0,00115 mg/kg
Soil		0,00041 mg/kg
Secondary p	poisoning	3300 mg/kg

8.2. Exposure controls



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.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:		
Odour:	, garlic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		185 °C
boiling range:		
Flammability:		not determined



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Lower explosion limits:	not determined					
Upper explosion limits:	not determined					
Flash point:	34 °C					
Auto-ignition temperature:	not determined					
Decomposition temperature:	not determined					
pH-Value:	not determined					
Viscosity / kinematic:	not determined					
Water solubility:	No					
Solubility in other solvents not determined						
Partition coefficient n-octanol/water:	not determined					
Vapour pressure: (at 20 °C)	0,11 hPa					
Density:	1,028-1,048 g/cm ³					
Relative vapour density:	not determined					
Particle characteristics:	not applicable					
9.2. 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					
Solid content:	not determined					

SECTION 10: Stability and reactivity

10.1. Reactivity

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
57-55-6	PROPYLENE GLYCOL						
	oral	LD50 mg/kg	22000	Rat	REACH registration	1	
	dermal	LD50 mg/kg	20800	Rabbit	GESTIS		
74-93-1	NATURAL METHYL ME	RCAPTAN					
	oral	Data lack	ing				
	dermal	Data lack	ing				
	inhalation (1 h) vapour	LC50	6,5 mg/l	Mouse			
	inhalation dust/mist	ATE	0,5 mg/l				
	inhalation (4 h) gas	LC50	675 ppm	Rat			

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.

Sensitising effects

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

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

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

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.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
57-55-6	PROPYLENE GLYCOL							
	Acute fish toxicity	LC50 mg/l	40613	96 h	Oncorhynchus mykiss (Rainbow trout)	REACH registration	Guideline: Environment Canada (1990)	
	Acute algae toxicity	ErC50 mg/l	19000	96 h	Pseudokirchneriella subcapitata	REACH registration	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	18340	48 h	Ceriodaphnia spec	REACH registration	EPA 600/4-90/0-27	
	Fish toxicity	NOEC mg/l	11530	7 d	Pimephales promelas (fathead minnow)	REACH registration	EPA 600/4-89/001	
	Algae toxicity	NOEC mg/l	15000	14 d	Pseudokirchneriella subcapitata	REACH registration	OECD 201	
	Crustacea toxicity	NOEC mg/l	13020	7 d	Ceriodaphnia spec	REACH registration	EPA 600/4-89/001	
	Acute bacteria toxicity	EC50 mg/l()	>20000	0 h	Pseudomonas putida	REACH registration	German guideline:"Bewert ung wassergefahr	
74-93-1	NATURAL METHYL MER	NATURAL METHYL MERCAPTAN						
	Acute fish toxicity	LC50	1,8 mg/l	96 h	Danio rerio			
	Acute algae toxicity	ErC50	6,3 mg/l	72 h	Pseudokirchneriella subspicata			
	Acute crustacea toxicity	EC50 mg/l	1,89	48 h	Daphnia magna			

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
57-55-6	PROPYLENE GLYCOL			
	OECD 301F	98,3%	28	REACH registration
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
57-55-6	PROPYLENE GLYCOL	-1,07
74-93-1	NATURAL METHYL MERCAPTAN	0,932

BCF

CAS No	Chemical name	BCF	Species	Source
57-55-6	PROPYLENE GLYCOL	0,09		REACH registration

12.4. Mobility in soil

The product has not been tested.

12.5. 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.



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12.6. 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.

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.

List of Wastes Code - residues/unused products

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 - 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

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.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:	UN 3336 MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S. 3 III 3
Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code:	F1 274 5 L E1 3 30 D/E
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u>	UN 3336 MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S. 3 III



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Ē		
	ATURAL METHYL MERCAPTAN 1% IN PG	
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Hazard label:	3	
Classification code: Special Provisions: Limited quantity: Excepted quantity:	F1 274 5 L E1	
Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 3336 MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S. 3 III 3	
Special Provisions: Limited quantity: Excepted quantity: EmS:	223 274 5 L E1 F-E, S-D	
Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 3336 MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S. 3 III 3	
Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	A3 10 L Y344 E1 	
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:	No	
 <u>14.6. Special precautions for user</u> Warning: Combustible liquid. <u>14.7. Maritime transport in bulk accordin</u> not applicable 	ng to IMO instruments	
SECTION 15: Regulatory information	1	

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

EU regulatory information



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Restrictions on use (REACH, annex XVII) Entry 3, Entry 40):		
Directive 2010/75/EU on industrial emissions:	100 % (1034,84 g/l)		
Directive 2004/42/EC on VOC in paints and varnishes:	100 % (1034,84 g/l)		
Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS		
Additional information			
To follow: 850/2004/EC, 79/117/EEC,	689/2008/EC		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to work protection guideline' (94/33/EC).	the 'juvenile	
Water hazard class (D):	1 - slightly hazardous to water		
15.2. Chemical safety assessment			
Chemical safety assessments for substances in this mixture were not carried out.			

SECTION 16: Other information



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Abbreviations and acronyms

Flam. Gas: Flammable gases Dissolved gas Flam. Lig: Flammable liquid Acute Tox: Acute toxicity Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard 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** EC/EEC: European Community/European Economic Community EU: European Union 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 M-factor: Multiplying factor 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 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).



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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.

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