

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

NATURAL [DIMETHYL	SULFIDE
-----------	----------	---------

Revision date: 05.06.2024

Product code: 274600WW

Page 1 of 8

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

1.1. Product identifier

NATURAL DIMETHYL SULFIDE

Substance name:	
CAS No:	

NATURAL DIMETHYL SULFIDE 75-18-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

For Flavour use for food and feed only

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 Serious eye damage/eye irritation: Eye Irrit. 2A Hazardous to the aquatic environment: Aquatic Acute 3

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.
H319	Causes serious eye irritation.
H402	Harmful to aquatic life.

Precautionary statements

recautionaly state	inents
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.
P264+P265	Wash hands [and] thoroughly after handling. Do not touch eyes.
P273	Avoid release to the environment.



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

NATURAL DIMETHYL SULFIDE

Revision date: 05.06.2024	Product code: 274600WW	Page 2 of 8
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
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 / Carbon dioxide (CO2) to extinguish.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/container to organic waste.	

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 identified 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:	C2 H6 S
Molecular weight:	62,14 g/mol

Relevant ingredients

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
75-18-3	NATURAL DIMETHYL SULFIDE	100 %
	Flam. Liq. 2, Eye Irrit. 2A, Aquatic Acute 3; H225 H319 H402	

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Observe risk of aspiration if vomiting occurs. 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

Highly flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

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

NATURAL DIMETHYL SULFIDE

Revision date: 05.06.2024

Product code: 274600WW

Page 3 of 8

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.

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, drink, smoke, sniff.

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



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

NATURAL DIMETHYL SULFIDE

Revision date: 05.06.2024

Product code: 274600WW

Page 4 of 8

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 FKM (fluoro rubber)

Skin protection

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:		-98 °C
Melting point/freezing point: Boiling point or initial boiling point a	ad	-98 C 37 °C
boiling range:		57 0
Flammability:		not determined
Lower explosion limits:		2,2 vol. %
Upper explosion limits:		19,7 vol. %
Flash point:		-48 °C
Auto-ignition temperature:		215 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		0,82 mm²/s
(at 20 °C)		
Water solubility:		7,3 g/l
(at 20 °C)		
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		1,05
Vapour pressure:		527 hPa
(at 20 °C)		
Vapour pressure:		1356 hPa
(at 50 °C)		
Density (at 20 °C):		0,85 g/cm³
Relative vapour density:		2,1
(at 20 °C)		
Particle characteristics:		not applicable
9.2. Other information		
Information with regard to physica	al hazard classes	
Explosive properties		
The product is not: Explosive. not	ot explosive according to EU A.14	
Oxidizing properties		
The product is not: ovidising		

The product is not: oxidising.



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

NATURAL	DIMETHYL	SULFIDE
---------	----------	---------

Revision date: 05.06.2024

Product code: 274600WW

Page 5 of 8

Other safety characteristics	
Evaporation rate:	not determined
Solvent content:	0%
Solid content:	0%
Viscosity / dynamic:	0,7 mPa·s
(at 20 °C)	

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

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
75-18-3	NATURAL DIMETHYL SULFIDE					
	oral	LD50 >: mg/kg	2000	Rat	REACH registration	OECD 423
	dermal	LD50 > mg/kg	5000	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50 1	02 mg/l	Rat	REACH registration	OECD 403

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

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.

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

NATURAL DIMETHYL SULFIDE

Revision date: 05.06.2024

Product code: 274600WW

Page 6 of 8

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
75-18-3	NATURAL DIMETHYL SULFIDE						
	Acute fish toxicity	LC50	213 mg/l		Oncorhynchus mykiss (Rainbow trout)	REACH Registration	OECD 203
	Acute algae toxicity	ErC50	114 mg/l		Pseudokirchneriella subcapitata	REACH Registration	OECD 201
	Acute crustacea toxicity	EC50	29 mg/l		Daphnia magna (Big water flea)	REACH Registration	OECD 202

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
75-18-3	NATURAL DIMETHYL SULFIDE						
	OECD 301D	77%	28	Reach Registration			
	Readily biodegradable (according to OECD criteria).						
	OECD 301D	74%	14	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
75-18-3	NATURAL DIMETHYL SULFIDE	0,84

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

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.



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

NATURAL DIMETHYL SULFIDE

Revision date: 05.06.2024

Product code: 274600WW

Page 7 of 8

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

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 1164 DIMETHYL SULPHIDE 3 II 3
Special Provisions: Limited quantity: Excepted quantity: EmS:	- 1 L E2 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 1164 DIMETHYL SULPHIDE 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:	No
 <u>14.6. Special precautions for user</u> Warning: Combustible liquid. <u>14.7. Maritime transport in bulk according</u> not applicable 	to IMO instruments
SECTION 15: Regulatory information	
National regulatory information Employment restrictions:	Observe restrictions to employment for work protection guideline' (94/33/EC).
SECTION 16: Other information	

Changes

This data sheet contains changes from the previous version in section(s): 2.

juveniles according to the 'juvenile



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

NATURAL DIMETHYL SULFIDE

Revision date: 05.06.2024

Product code: 274600WW

Page 8 of 8

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 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 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). EC/EEC: European Community/European Economic Community EU: European Union M-factor: Multiplying factor IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization **TI: Technical Instructions** VOC: volatile organic compound **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.