



Safety Data Sheet

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 1 of 10

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

1.1. Product identifier

NATURAL METHIONAL

Further trade names

Legacy code: NA2747

Substance name: NATURAL METHIONAL

CAS No: 3268-49-3

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name:	Axxence Corporation	
Street:	1050 Cypress Creek Road	
Place:	USA-71463 Oakdale, LA	
Telephone:	318-215-1456	Telefax: 318-335-1579
E-mail:	customerservice-usa@axxence.com	
Internet:	www.axxence.com	

Supplier

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 number:

+49 2822 68561 99

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

2.2. Label elements

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

Signal word: Danger

Safety Data Sheet

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 2 of 10

Pictograms:



Hazard statements

H227	Combustible liquid.
H302+H332	Harmful if swallowed or if inhaled.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P333+P317	If skin irritation or rash occurs: Get medical help.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use Water spray jet to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C4 H8 OS
Molecular weight:	104,17 g/mol

Relevant ingredients

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
3268-49-3	NATURAL METHIONAL	100 %
	Flam. Liq. 4, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 2, Aquatic Chronic 3; H227 H311 H332 H302 H315 H318 H317 H335 H401 H412	

SECTION 4: First aid measures

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 3 of 10

4.1. Description of first aid measures**General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

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. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs.

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**

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

Foam / Carbon dioxide (CO₂) / Extinguishing powder

5.2. Special hazards arising from the substance or mixture

Non-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**

Provide adequate ventilation. 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 to enter into surface water or drains. No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

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.

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 4 of 10

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**

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

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.

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.

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

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 NBR (Nitrile rubber) + Natural fibres (e.g. cotton)
Suitable gloves type NBR (Nitrile rubber) + Natural fibres (e.g. cotton)

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.



Safety Data Sheet

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 5 of 10

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	Gan dath go buí	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		164 °C
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		64 °C
Auto-ignition temperature:		255 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic: (at 10 °C)		1,49 mm²/s
Water solubility: (at 20 °C)		No
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		0,35
Vapour pressure: (at 20 °C)		0,53 hPa
Vapour pressure: (at 27 °C)		1 hPa
Density (at 20 °C):		1,04 g/cm³
Relative vapour density: (at 20 °C)		3,6
Particle characteristics:		not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive. not explosive according to EU A.14

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solid content:	0%
Viscosity / dynamic: (at 10 °C)	1,55 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

Safety Data Sheet

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 6 of 10

10.4. Conditions to avoid

none

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

Toxic in contact with skin.

Harmful if inhaled.

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
3268-49-3	NATURAL METHIONAL				
	oral	LD50 1050 mg/kg	Rat	REACH registration	OECD 401
	dermal	LD50 777 mg/kg	Rabbit	REACH registration	OECD 402 similar
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) dust/mist	LC50 4,84 mg/l	Rat		OECD 403

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

Sensitising effects

May cause an allergic skin reaction. (NATURAL METHIONAL)

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 METHIONAL)

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

The product is not: Ecotoxic.

Safety Data Sheet

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 7 of 10

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
3268-49-3	NATURAL METHIONAL					
	Acute fish toxicity	LC50 7 mg/l	96 h	Danio rerio (zebrafish)	REACH registration	OCDE 203
	Acute algae toxicity	ErC50 5,7 mg/l	72 h	Desmodesmus subspicatus	REACH registration	OECD 201
	Acute crustacea toxicity	EC50 4,5 mg/l	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202

12.2. Persistence and degradability

The product has not been tested.

The product has not been tested.				
CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
3268-49-3	NATURAL METHIONAL			
	EU C4-A	92%	28	REACH Registration
	Readily Biodegradable			
	EU C4-A	75%	14	REACH Registration
	Readily Biodegradable			
	EU C4-A	5-8%	2	REACH Registration
	Readily Biodegradable			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
3268-49-3	NATURAL METHIONAL	0,35

12.4. Mobility in soil

The product has not been tested.

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.

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). 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 2785
14.2. UN proper shipping name:	4-THIAPENTANAL
14.3. Transport hazard class(es):	6.1

Safety Data Sheet

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 8 of 10

14.4. Packing group:

Hazard label:

III

6.1



Special Provisions:

-

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-A

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

UN 2785

14.2. UN proper shipping name:

4-THIAPENTANAL

14.3. Transport hazard class(es):

6.1

14.4. Packing group:

III

Hazard label:

6.1



Limited quantity Passenger:

2 L

Passenger LQ:

Y642

Excepted quantity:

E1

IATA-packing instructions - Passenger:

655

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

663

IATA-max. quantity - Cargo:

220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

14.6. Special precautions for user

Warning: Acute Toxicity.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Skin resorption/Sensitization:

Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

SECTION 16: Other information**Changes**

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

Safety Data Sheet

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 9 of 10

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

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

NATURAL METHIONAL

Revision: 22.07.2026

Product code: 274700

Page 10 of 10

adhering to existing laws and regulations.