

according to Regulation (EC) No 1907/2006

# NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 1 of 10

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

#### 1.1. Product identifier

NATURAL METHYL HEPTENONE

Substance name: NATURAL METHYL HEPTENONE

CAS No: 110-93-0 EC No: 203-816-7

#### 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: Andreas Goertz Telephone: + 49 2822 68561 37

e-mail: andreas.goertz@axxence.com

Internet: www.axxence.de
Responsible Department: QM - Regulatory Affairs

1.4. Emergency telephone +49 2822 68561 99

number:

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

Flam. Liq. 3; H226

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

# Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



### **Hazard statements**

H226 Flammable liquid and vapour.

# **Precautionary statements**

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.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.



### **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 2 of 10

P303+P361+P353 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 to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to .

#### 2.3. Other hazards

No information available.

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

### 3.1. Substances

Sum formula: C8 H14 O Molecular weight: 126,2

### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No 1272/2008)				
110-93-0	NATURAL METHYL HEPTENONE				
	203-816-7				
	Flam. Liq. 3; H226				

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

# Specific Conc. Limits, M-factors and ATE

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CAS No	EC No	Chemical name				
	Specific Conc.	Specific Conc. Limits, M-factors and ATE				
110-93-0	203-816-7	NATURAL METHYL HEPTENONE	100 %			
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 3570 mg/kg					

#### **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.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### **NATURAL METHYL HEPTENONE**

Revision date: 16.12.2022 Product code: 270700 Page 3 of 10

#### 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.

### 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.

### 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**



according to Regulation (EC) No 1907/2006

### NATURAL METHYL HEPTENONE

Product code: 270700 Revision date: 16.12.2022 Page 4 of 10

#### 8.1. Control parameters

#### **DNEL/DMEL values**

CAS No	Name of agent					
DNEL type		Exposure route	Effect	Value		
110-93-0	10-93-0 NATURAL METHYL HEPTENONE					
Worker DNEL,	long-term	inhalation	systemic	29,39 mg/m³		
Worker DNEL, long-term		dermal	systemic	8,33 mg/kg bw/day		
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m³		
Consumer DNEL, long-term		dermal	systemic	5 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day		

#### 8.2. Exposure controls



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

#### Eye/face protection

Wear eye/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:

-67 °C

250 °C

Melting point/freezing point: 173 °C Boiling point or initial boiling point and

boiling range: Flammability

Solid/liquid: not applicable

not applicable Gas: Lower explosion limits: 1,1 vol. % 7.3 vol. % Upper explosion limits: Flash point: 50 °C

Auto-ignition temperature: Decomposition temperature: not determined pH-Value (at 20 °C): 6,6

1,15 mm<sup>2</sup>/s Viscosity / kinematic:

(at 20 °C)



according to Regulation (EC) No 1907/2006

#### NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 5 of 10

Water solubility: 3,02 g/L

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 2,07 Vapour pressure: 1 hPa

(at 20 °C)

Vapour pressure: 8 hPa

(at 50 °C)

Density (at 20 °C): 0,85 g/cm³
Relative vapour density: 4,36

(at 20 °C)

#### 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:

Solvent content:

Solid content:

Viscosity / dynamic:
(at 20 °C)

not determined

0%

0,98

not determined

0,98

0,98

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.



according to Regulation (EC) No 1907/2006

### NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 6 of 10

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
110-93-0	NATURAL METHYL HEPTENONE							
	oral	LD50 mg/kg	3570	Rat	· ·· · · · · · · · · · · · · · · · ·	similar to OECD TG 401		
	dermal	LD50 mg/kg	>5000	Rabbit	REACH reg.			

#### Irritation and corrosivity

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

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

The product is not: Ecotoxic.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
110-93-0	NATURAL METHYL HEPTENONE							
	Acute fish toxicity	LC50	50 mg/l		Leuciscus idus (golden orfe)	REACH reg.	DIN 38412	
	Acute algae toxicity	ErC50	116 mg/l		Desmodesmus subspicatus	REACH reg.	DIN 38412	
	Acute crustacea toxicity	EC50	74 mg/l		Daphnia magna (Big water flea)	REACH reg.	DIN 38412	
	Acute bacteria toxicity	(EC50 mg/l)	800	0,5 h	Activated sludge	REACH reg.	OECD 209	

# 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
110-93-0	NATURAL METHYL HEPTENONE						
	OECD 301F	91%	28				
	Readily biodegradable			_			

### 12.3. Bioaccumulative potential

The product has not been tested.



according to Regulation (EC) No 1907/2006

#### NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 7 of 10

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
110-93-0	NATURAL METHYL HEPTENONE	2,07

#### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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.

# 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

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

### **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number or ID number: UN 1224

14.2. UN proper shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 274
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3



according to Regulation (EC) No 1907/2006

### NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 8 of 10

Hazard No: 30
Tunnel restriction code: D/E
Other applicable information (land transport)

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Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1224

14.2. UN proper shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 274
Limited quantity: 5 L
Excepted quantity: E1

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1224

**14.2. UN proper shipping name:** KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Special Provisions: 223, 274
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1224

14.2. UN proper shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 9 of 10

#### 14.6. Special precautions for user

Warning: Combustible liquid.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): 100 % (850 g/l) 2004/42/EC (VOC): 100 % (850 g/l)

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

**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 the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,13,14,15,16.

### 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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### NATURAL METHYL HEPTENONE

Revision date: 16.12.2022 Product code: 270700 Page 10 of 10

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).

### Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

#### **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.