

according to Regulation (EC) No 1907/2006

## **NATURAL ALDEHYDE C-9 (NONANAL)**

Revision date: 05.01.2023 Product code: 278200 Page 1 of 9

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

### 1.1. Product identifier

NATURAL ALDEHYDE C-9 (NONANAL)
CAS No: 124-19-6
EC No: 204-688-5

### 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

number:

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

#### Regulation (EC) No 1272/2008

# **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

# **Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container to organic waste.

### 2.3. Other hazards

No information available.

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

#### 3.1. Substances

Sum formula: C9 H18 O
Molecular weight: 142,24 g/mol

Print date: 09.10.2024



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#### Relevant ingredients

CAS No	Chemical name	Chemical name			Quantity
	EC No	Index No		REACH No	
	Classification (Regulation (EC) No 1272/2008)				
124-19-6	NATURAL ALDEHYDE C-9 (NONA	NATURAL ALDEHYDE C-9 (NONANAL)			100 %
	204-688-5				
	Aquatic Chronic 3; H412				

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

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name		Quantity
	Specific Conc. L	Limits, M-factors and ATE	
124-19-6	204-688-5	NATURAL ALDEHYDE C-9 (NONANAL)	100 %
	dermal: LD50 =	: >5000 mg/kg; oral: LD50 = >5000 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

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

Carbon dioxide (CO2) / Foam / Powder

#### Unsuitable extinguishing media

Water

# 5.2. Special hazards arising from the substance or mixture

Non-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



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#### General advice

Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 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

No special fire protection measures are necessary.

### 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.

### Hints on joint storage

No special measures are necessary.

### 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		Exposure route	Effect	Value	
124-19-6	NATURAL ALDEHYDE C-9 (NONANAL)				
Worker DNEL,	long-term	inhalation	systemic	24,9 mg/m³	
Worker DNEL, long-term		dermal	systemic	7 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	6,1 mg/m³	
Consumer DNEL, long-term		dermal	systemic	3,5 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	3,5 mg/kg bw/day	



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#### **PNEC values**

CAS No	Name of agent		
Environmenta	l compartment	Value	
124-19-6	NATURAL ALDEHYDE C-9 (NONANAL)		
Freshwater		0,00145 mg/l	
Marine water		0,000145 mg/l	
Freshwater se	ediment	0,106 mg/kg	
Marine sedime	ent	0,01056 mg/kg	
Secondary poisoning		313 mg/kg	
Micro-organisms in sewage treatment plants (STP)		3,16 mg/l	
Soil		0,02022 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:

Melting point/freezing point: -18.8 °C Boiling point or initial boiling point and 194 °C

boiling range:

Flammability: not applicable

not applicable

76 °C Flash point:

195 °C Auto-ignition temperature: Decomposition temperature: not determined not determined pH-Value: Viscosity / kinematic: 1,4 mm<sup>2</sup>/s

(at 40 °C)

Water solubility: 0,1 g/I

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 3,4 Vapour pressure: 2 hPa

(at 20 °C)

Density (at 20 °C): 0,83 g/cm<sup>3</sup>



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Relative vapour density:

4,91

(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:

Solid content:

Viscosity / dynamic:

(at 40 °C)

not determined

not determined

1,16 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.

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

### **Acute toxicity**

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

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
124-19-6	NATURAL ALDEHYDE C-9 (NONANAL)					
	oral	LD50 >5000 mg/kg	Rat	REACH registration		
	dermal	LD50 >5000 mg/kg	Rabbit	REACH registration		

## 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



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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.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
124-19-6	NATURAL ALDEHYDE C	-9 (NONAN	IAL)				
	Acute fish toxicity	LC50 mg/l	1,45	96 h	Oncorhynchus mykiss (Rainbow trout)	REACH registration	OECD 203
	Acute algae toxicity	ErC50 mg/l	1,79	72 h	Pseudokirchneriella subcapitata	REACH registration	OECD 201
	Acute crustacea toxicity	EC50 mg/l	1,54		Daphnia magna (Big water flea)	REACH registration	OECD 202
	Algae toxicity	NOEC mg/l	0,759	3 d	Pseudokirchneriella subcapitata	REACH registration	OECD 201
	Acute bacteria toxicity	EC50	70 mg/l (	3 h	Activated sludge	REACH registration	OECD 209

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation		-			
124-19-6	NATURAL ALDEHYDE C-9 (NONANAL)					
	OECD 301F	83%	28	REACH Registration		
	Readily biodegradable (according to OECD criteria).					
	OECD 301F	71%	11	REACH Registration		
	Readily biodegradable (according to OECD	criteria).	-			
	OECD 301F	23%	1	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
124-19-6	NATURAL ALDEHYDE C-9 (NONANAL)	3,4

### **BCF**

CAS No	Chemical name	BCF	Species	Source
124-19-6	NATURAL ALDEHYDE C-9 (NONANAL)	94		REACH Registration

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### 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**

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:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

## Inland waterways transport (ADN)

,	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

# Marine transport (IMDG)

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14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)



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14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

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

Directive 2010/75/EU on industrial 100 % (830 g/l)

emissions:

Directive 2004/42/EC on VOC in

100 % (830 g/l)

paints and varnishes:

Information according to Directive

Not subject to 2012/18/EU (SEVESO III)

2012/18/EU (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): 2 - obviously 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): 1,2,4,5,6,7,8,9,12,15,16.



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### Abbreviations and acronyms

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** 

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).

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

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.