

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

NATURAL ALDEHYDE C-9 (NONANAL)

Revision date: 05.01.2023

Product code: 278200WW

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

1.1. Product identifier

NATURAL ALDEHYDE C-9 (NONANAL)

CAS No:

(NONANAL) 124-19-6

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

UN GHS (ST/SG/AC.10/11/Rev.10) Flammable liquid: Flam. Liq. 4 Hazardous to the aquatic environment: Aquatic Acute 2

Hazardous to the aquatic environment: Aquatic Chronic 3

2.2. Label elements

11/Rev.10)
Warning
Combustible liquid.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.
ents
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
In case of fire: Use Extinguishing powder / Foam / Carbon dioxide (CO2) to extinguish.
Store in a well-ventilated place.
Dispose of contents/container to organic waste.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances



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

Relevant ingredients

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.10))	
124-19-6	NATURAL ALDEHYDE C-9 (NONANAL)	100 %
	Flam. Liq. 4, Aquatic Acute 2, Aquatic Chronic 3; H227 H401 H412	

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

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



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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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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:

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Melting point/freezing point: Boiling point or initial boiling point and boiling range:	-18,8 °C 194 °C	
Flammability:	not applicable not applicable	
Flash point: Auto-ignition temperature:	76 °C 195 °C	
Decomposition temperature: pH-Value:	not determined not determined	
Viscosity / kinematic: (at 40 °C)	1,4 mm²/s	
Water solubility: (at 20 °C)	0,1 g/l	
Solubility in other solvents not determined		
Partition coefficient n-octanol/water: Vapour pressure: (at 20 °C)	3,4 2 hPa	
Density (at 20 °C): Relative vapour density: (at 20 °C)	0,83 g/cm³ 4,91	
9.2. Other information		
Information with regard to physical hazard classe Explosive properties The product is not: Explosive. not explosive acc 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 toxicological effects

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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

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 (NONANAL)						
	Acute fish toxicity	LC50 mg/l	1,45		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.



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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

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

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.

Contaminated packaging

Non-contaminated packages may be recycled. 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:
	14.2. UN proper shipping name:
	14.3. Transport hazard class(es):
	14.4. Packing group:
١r	transport (ICAO-TI/IATA-DGR)

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> No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.



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14.4. Packing group:	No dangerous good in sense of this transport regulation.				
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:	No				
 <u>14.6. Special precautions for user</u> No information available. <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 juveniles according to the 'juvenile work protection guideline' (94/33/EC).					
SECTION 16: Other information					
Changes					

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



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Product code: 278200WW 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 DMFL: 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). **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.