

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## NATURAL ALDEHYDE C-7 (HEPTANAL)

Revision date: 03/04/2025

Product code: 254000US

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### 1. Identification

#### Product identifier

NATURAL ALDEHYDE C-7 (HEPTANAL)

CAS No: 111-71-7

#### Recommended use of the chemical and restrictions on use

##### Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

#### 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		

**Emergency phone number:** +49 2822 68561 99

### 2. Hazard(s) identification

#### Classification of the chemical

##### 29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 3  
Acute toxicity: Acute Tox. 5 (oral)  
Skin corrosion/irritation: Skin Irrit. 2

#### Label elements

##### 29 CFR Part 1910.1200

**Signal word:** Warning

**Pictograms:**



#### **Hazard statements**

Flammable liquid and vapor  
May be harmful if swallowed  
Causes skin irritation

#### **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Get medical help.  
If on skin: Wash with plenty of water and soap.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use sand, earth, extinguishing powder or foam to extinguish.

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Store in a well-ventilated place. Keep cool.

Dispose of contents/container to an appropriate recycling or disposal facility.

### Hazards not otherwise classified

No information available.

## 3. Composition/information on ingredients

### Substances

Sum formula: C7 H14 O  
Molecular weight: 114,19 g/mol

### Relevant ingredients

CAS No	Components	Quantity
111-71-7	NATURAL ALDEHYDE C-7	100 %

## 4. First-aid measures

### 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 plenty of water.

### Most important symptoms and effects, both acute and delayed

No information available.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing media**

Carbon dioxide (CO2), Foam, Extinguishing powder.

#### **Unsuitable extinguishing media**

Water spray jet

### Specific hazards arising from the chemical

Flammable. Vapors may form explosive mixtures with air.

### Special protective equipment and precautions for fire-fighters

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.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### **General advice**

Remove all sources of ignition.

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### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

### Methods and material for containment and cleaning up

#### 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.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

### 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.

Vapors may 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 or drink.

### 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: Oxidising agent. Pyrophoric or self-heating substances.

## 8. Exposure controls/personal protection

### Control parameters

### 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

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Melting point/freezing point:	-43°C °C
Boiling point or initial boiling point and boiling range:	153 °C
Flammability:	not applicable
	not applicable
Lower explosion limits:	1,1 vol. %
Upper explosion limits:	5,2 vol. %
Flash point:	35 °C
Auto-ignition temperature:	205 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic: (at 30 °C)	0,965 mm²/s
Water solubility: (at 20 °C)	2 g/l
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	2,8
Vapor pressure: (at 20 °C)	5,0 hPa
Vapor pressure: (at 50 °C)	28,1 hPa
Density (at 20 °C):	0,82 g/cm³
Relative vapour density: (at 20 °C)	3,93

#### Other information

##### Information with regard to physical hazard classes

Explosive properties	
not explosive according to EU A.14	
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Oxidizing properties	
Not oxidising.	

##### Other safety characteristics

Evaporation rate:	not determined
Solvent content:	0%
Solid content:	0\$%
Viscosity / dynamic: (at 30 °C)	0,791 mPa·s

### 10. Stability and reactivity

#### Reactivity

Flammable.

#### Chemical stability

The product is stable under storage at normal ambient temperatures.

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### Possibility of hazardous reactions

No known hazardous reactions.

### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

### Incompatible materials

No information available.

### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

May be harmful if swallowed

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
111-71-7	NATURAL ALDEHYDE C-7				
	oral	LD50 mg/kg	3200	Rat	
	dermal	LD50 mg/kg	>5000	Rabbit	
	inhalation (4 h) vapour	LC50 mg/l	>18400	Rat	

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitizing 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.

#### Specific target organ toxicity (STOT) - single exposure

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

#### Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

#### Aspiration hazard

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

### Information on other hazards

#### Endocrine disrupting properties

No information available.

## 12. Ecological information

### Ecotoxicity

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The product is not: Ecotoxic.

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

The product has not been tested.

### Mobility in soil

The product has not been tested.

### Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### Other adverse effects

No information available.

### Further information

Avoid release to the environment.

## 13. Disposal considerations

### Waste treatment methods

#### **Disposal recommendations**

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

#### **Contaminated packaging**

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

## 14. Transport information

### **Marine transport (IMDG)**

**UN number or ID number:** UN 3056  
**UN proper shipping name:** N-HEPTALDEHYDE  
**Transport hazard class(es):** 3  
**Packing group:** III  
Hazard label: 3



Marine pollutant: -  
EmS: F-E,S-D

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

**UN number or ID number:** UN 3056  
**UN proper shipping name:** N-HEPTALDEHYDE  
**Transport hazard class(es):** 3  
**Packing group:** III  
Hazard label: 3



### **Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

### **Special precautions for user**

Warning: Combustible liquid.

### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

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### 15. Regulatory information

#### U.S. Regulations

##### National regulatory information

SARA Section 311/312 Hazards:

NATURAL ALDEHYDE C-7 (111-71-7): Fire hazard, Immediate (acute) health hazard

#### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### 16. Other information

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#### 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%

#### Other data

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.