

according to 29 CFR 1910.1200(g)

## **NATURAL ALDEHYDE C-12 (DODECANAL)**

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#### 1. Identification

### **Product identifier**

NATURAL ALDEHYDE C-12 (DODECANAL)

NATURAL ALDEHYDE C-12 (DODECANAL)

CAS No: 112-54-9

### 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

Axxence Aromatic GmbH Company name:

Street: Tackenweide 28

Place: D-46446 Emmerich am Rhein

+ 49 2822 68561 0 Telephone: Telefax: + 49 2822 68561 39

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Safety Team Contact person: Telephone: + 49 2822 68561 0

E-mail: safety-documentation@axxence.com

Internet: www.axxence.de Responsible Department: Safety Management +49 2822 68561 99

**Emergency phone number:** 

### 2. Hazard(s) identification

# Classification of the chemical

## 29 CFR Part 1910.1200

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

### Label elements

### 29 CFR Part 1910.1200

Signal word: Warning

Pictograms:





#### **Hazard statements**

Causes skin irritation and serious eye irritation

May cause an allergic skin reaction

Toxic to aquatic life with long lasting effects

## **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.





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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Collect spillage.

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

### 3. Composition/information on ingredients

### **Substances**

Sum formula: C12H24O Molecular weight: 184,32 g/mol

#### Relevant ingredients

CAS No	Components	Quantity
112-54-9	NATURAL ALDEHYDE C-12 (DODECANAL)	100 %

### 4. First-aid measures

#### Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### 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

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

## Specific hazards arising from the chemical

Non-flammable.

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

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

## Additional information

Supress gases/vapors/mists with water spray jet. 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

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes.





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Use personal protection equipment.

### **Environmental precautions**

Do not allow to enter into surface water or drains.

### 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

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 or drink.

### 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.

## 8. Exposure controls/personal protection

### **Control parameters**

### **Exposure controls**





## 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.

#### 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: Colourless to pale yellow

Melting point/freezing point:

12 °C

Boiling point or initial boiling point and

257 °C

boiling range:

Flammability: not applicable not applicable

Lower explosion limits:

Upper explosion limits:

not determined

Plash point:

Auto-ignition temperature:

Decomposition temperature:

pH-Value:

Viscosity / kinematic:

not determined

2,5 mm²/s

(at 40 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 4,75
Vapor pressure: 0,007 hPa

(at 20 °C)

Vapor pressure: <300 hPa

(at 50 °C)

Density (at 20 °C): 0,83 g/cm³
Relative vapour density: not determined

### 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%

## 10. Stability and reactivity

### Reactivity

No hazardous reaction when handled and stored according to provisions.

### **Chemical stability**

The product is stable under storage at normal ambient temperatures.

#### Possibility of hazardous reactions

No known hazardous reactions.

#### **Conditions to avoid**

none



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### Incompatible materials

No information available.

### **Hazardous decomposition products**

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

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

CAS No	Components							
	Exposure route	Dose	Species	Source	Method			
112-54-9	NATURAL ALDEHYDE	NATURAL ALDEHYDE C-12 (DODECANAL)						
	oral	LD50 23100 mg/kg	Rat					
	dermal	LD50 >2001 mg/kg	Rabbit					
	inhalation	Data lacking						

### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye irritation

## Sensitizing effects

May cause an allergic skin reaction (NATURAL ALDEHYDE C-12 (DODECANAL))

## 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**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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CAS No	Components						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
112-54-9	NATURAL ALDEHYDE C-12 (DODECANAL)						
	Acute fish toxicity	LC50	2,6 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50	NO mg/l		Pseudokirchneriella subspicata		
	Acute crustacea toxicity	EC50	NO mg/l	48 h	Daphnia magna		
	Algae toxicity	NOEC mg/l	0,35		Pseudokirchneriella subspicata		

### Persistence and degradability

The product has not been tested.

### **Bioaccumulative potential**

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Components	Log Pow
112-54-9	NATURAL ALDEHYDE C-12 (DODECANAL)	4,75

#### 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**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# 13. Disposal considerations

### 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.

### 14. Transport information

## U.S. DOT 49 CFR 172.101

UN number or ID number: UN 3082

<u>Proper shipping name:</u> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es):9Packing group:IIIHazard label:9



Marine transport (IMDG)

UN number or ID number: UN 3082

<u>UN proper shipping name:</u> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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Transport hazard class(es):

Packing group:

Hazard label:

9



Special Provisions: 274, 335, 969

Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 3082

<u>UN proper shipping name:</u> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es):9Packing group:IIIHazard label:9



Special Provisions: A97 A158 A197 Limited quantity Passenger: 30 kg G

Passenger LQ: Y964
Excepted quantity: E1

IATA-packing instructions - Passenger:964IATA-max. quantity - Passenger:450 LIATA-packing instructions - Cargo:964IATA-max. quantity - Cargo:450 L

**Environmental hazards** 

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: NATURAL ALDEHYDE C-12 (DODECANAL)

Special precautions for user

No information available.

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

not applicable

# 15. Regulatory information

## **U.S. Regulations**

## National regulatory information

SARA Section 311/312 Hazards:

NATURAL ALDEHYDE C-12 (DODECANAL) (112-54-9): 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 above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.