

according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 1 of 9

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

### 1.1. Product identifier

NATURAL ALDEHYDE C-10 (DECANAL) 95% CAS No: 112-31-2 EC No: 203-957-4

### 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

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

### Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



# **Hazard statements**

H319 Causes serious eye irritation.

# **Precautionary statements**

P264 Wash hands thoroughly after handling.

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

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

## 2.3. Other hazards



according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 2 of 9

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59.

This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH.

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

### 3.1. Substances

Sum formula: C10 H20 O Molecular weight: 156,27 g/mol

### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)			100 %
	203-957-4			
	Eye Irrit. 2; H319			

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. Limits, M-factors and ATE		
112-31-2	203-957-4	NATURAL ALDEHYDE C-10 (DECANAL)	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

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.

### 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.

# 5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

# 5.3. Advice for firefighters





according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 3 of 9

In case of fire: Wear self-contained breathing apparatus.

### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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

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

### 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

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.

## 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



according to Regulation (EC) No 1907/2006

# NATURAL ALDEHYDE C-10 (DECANAL) 95%

Revision date: 28.02.2025 Product code: 236240 Page 4 of 9

## **DNEL/DMEL values**

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)			
Worker DNEL,	long-term	inhalation	systemic	24,86 mg/m³
Worker DNEL,	acute	inhalation	systemic	49,71 mg/m³
Worker DNEL,	long-term	inhalation	local	62,14 mg/m³
Worker DNEL,	acute	inhalation	local	124,28 mg/m³
Worker DNEL,	long-term	dermal	systemic	7,05 mg/kg bw/day
Worker DNEL,	acute	dermal	systemic	14,1 mg/kg bw/day
Worker DNEL,	long-term	dermal	local	17,62 mg/cm <sup>2</sup>
Worker DNEL,	acute	dermal	local	35,24 mg/cm <sup>2</sup>
Consumer DNI	EL, long-term	inhalation	systemic	6,13 mg/m³
Consumer DNI	EL, acute	inhalation	systemic	12,26 mg/m³
Consumer DNI	EL, long-term	inhalation	local	15,32 mg/m³
Consumer DNI	EL, acute	inhalation	local	30,65 mg/m³
Consumer DNI	EL, long-term	dermal	systemic	3,52 mg/kg bw/day
Consumer DNI	EL, acute	dermal	systemic	7,05 mg/kg bw/day
Consumer DNI	EL, long-term	dermal	local	8,81 mg/cm <sup>2</sup>
Consumer DNEL, acute		dermal	local	17,62 mg/cm <sup>2</sup>
Consumer DNI	EL, long-term	oral	systemic	3,52 mg/kg bw/day
Consumer DNI	EL, acute	oral	systemic	7,05 mg/kg bw/day

## **PNEC** values

CAS No	Name of agent	
Environmen	tal compartment	Value
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)	
Freshwater		0,00117 mg/l
Freshwater	(intermittent releases)	0,0117 mg/l
Marine water	г	0,000117 mg/l
Freshwater sediment		0,0972 mg/kg
Marine sediment		0,00972 mg/kg
Secondary poisoning		313 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,16 mg/l
Soil		0,019 mg/kg

# 8.2. Exposure controls



Individual protection measures, such as personal protective equipment



according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 5 of 9

### 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.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour:

Melting point/freezing point: 7 °C
Boiling point or initial boiling point and 216 °C

boiling range:

Flammability: not applicable

not applicable

Lower explosion limits:

Upper explosion limits:

not determined

not determined

Flash point: 85 °C
Auto-ignition temperature: 195 °C
Decomposition temperature: not determined
pH-Value: not determined

Water solubility: The study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: 3,97
Vapour pressure: 0,08 hPa

(at 20 °C)

Density (at 20 °C): 0,83 g/cm³
Relative vapour density: 5,4

(at 20 °C)

### 9.2. 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%



according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 6 of 9

Solid content: 0%

## **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	
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)					
	oral	LD50 >5000 mg/kg	Rat	REACH Dossier		
	dermal	LD50 >5000 mg/kg	Rabbit	REACH Dossier		

# Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/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.

### 11.2. Information on other hazards

### **Endocrine disrupting properties**

No information available.

# **SECTION 12: Ecological information**



according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 7 of 9

### 12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
112-31-2	NATURAL ALDEHYDE C	-10 (DECA	NAL)				
	Acute fish toxicity	LC50 mg/l	1,45		Oncorhynchus mykiss (Rainbow trout)	REACH Dossier	OECD 203
	Acute algae toxicity	ErC50	4,5 mg/l	I . — · ·	Pseudokirchneriella subcapitata	REACH Dossier	OECD 201
	Acute crustacea toxicity	EC50 mg/l	1,17		Daphnia magna (Big water flea)	REACH Dossier	OECD 202
	Acute bacteria toxicity	EC50	70 mg/l (	3 h	Activated sludge	REACH Dossier	OECD 209

## 12.2. Persistence and degradability

The product has not been tested

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation			-		
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)					
	OECD 301F	50%	7	REACH Registration		
	Readily biodegradable (according to OECD criteria).					
	OECD 301F	76%	21	REACH Registration		
	Readily biodegradable (according to OECD criteria).	•	-	•		
	OECD 301F	82%	28	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
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)	3,8

## **BCF**

CAS No	Chemical name	BCF	Species	Source
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)	309		

## 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**



according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 8 of 9

### 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)

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)

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





according to Regulation (EC) No 1907/2006

# **NATURAL ALDEHYDE C-10 (DECANAL) 95%**

Revision date: 28.02.2025 Product code: 236240 Page 9 of 9

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Directive 2004/42/EC on VOC in

100 %

paints and varnishes:

Information according to Directive

2012/18/EU (SEVESO III):

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

**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**

## Abbreviations and acronyms

Eye Irrit: Eye irritation

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%

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

H319 Causes serious eye irritation.

### **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.