



MATERIAL SAFETY DATA SHEET (MSDS)

According to UN GHS / REACH / CLP Regulations

NATURAL ALDEHYDE C-10 (DECANAL) 95%

SECTION 1: IDENTIFICATION

Product Name: Natural Aldehyde C-10 (Decanal) 95%

CAS Number: 112-31-2

Molecular Formula: $C_{10}H_{20}O$

Molecular Weight: 156.27 g/mol

Product Type: Natural aroma chemical (aldehyde)

Recommended Use:

Fragrance, flavour, cosmetic, and pharmaceutical applications

Restriction:

Not for personal use in this form or concentration

Supplier:

AROMOLOGY

G05 Alghazal Building

Nadd Al Hamar

Dubai, United Arab Emirates

Email: info@aromology.com

Website: www.aromology.com

SECTION 2: HAZARD IDENTIFICATION

Classification (GHS)

- Eye Irritation – Category 2
- Aquatic Acute Toxicity – Category 2

Signal Word:

WARNING



Hazard Statements

- H319 – Causes serious eye irritation
- H401 – Toxic to aquatic life

Precautionary Statements

- Wash thoroughly after handling
- Avoid contact with eyes
- Avoid release to the environment
- Wear protective gloves / eye protection
- IF IN EYES: Rinse cautiously with water
- If irritation persists: Seek medical advice
- Dispose contents in accordance with regulations

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS	Concentration
Decanal (Natural Aldehyde C-10)	112-31-2	100%

SECTION 4: FIRST AID MEASURES

Inhalation:

Provide fresh air

Skin Contact:

Wash thoroughly with water and remove contaminated clothing

Eye Contact:

Rinse with water for several minutes and seek medical attention

Ingestion:

Rinse mouth and drink water

✓ Based on SDS guidance



SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media:

Use appropriate extinguishing media based on surroundings

Hazards:

Vapours may form explosive mixtures with air

Protection:

Use self-contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Avoid inhalation and contact
 - Ensure adequate ventilation
 - Absorb with inert material
 - Prevent entry into drains or waterways
 - Dispose according to regulations
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SECTION 7: HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes

Use PPE and maintain hygiene

Do not inhale vapours

Storage:

Keep container tightly closed

Store in cool, dry, well-ventilated area

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Not established

PPE:

- Safety goggles



- Chemical-resistant gloves
- Protective clothing

Respiratory Protection:
Use where ventilation is insufficient

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical State	Liquid
Colour	Colourless to pale yellow
Odour	Fatty, citrus-aldehydic
Melting Point	~7 °C
Boiling Point	~216 °C
Flash Point	~85 °C
Density	~0.83 g/cm ³
Vapour Pressure	~0.08 hPa
Log Kow	~3.8
Water Solubility	Insoluble

(Data from SDS)

SECTION 10: STABILITY AND REACTIVITY

- Stable under normal conditions
- Avoid extreme heat
- No hazardous reactions expected
- Avoid incompatible materials (oxidisers)

SECTION 11: TOXICOLOGICAL INFORMATION

- LD50 oral: >5000 mg/kg
- LD50 dermal: >5000 mg/kg
- Eye irritant (Category 2)
- No classification for sensitisation or carcinogenicity

✓ Based on REACH dossier data

SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic organisms
- LC50 fish: ~1.45 mg/L
- EC50 algae: ~4.5 mg/L
- Readily biodegradable (OECD 301)
- Moderate bioaccumulation potential

✓ Based on environmental data

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose according to local regulations.

Do not release into drains, soil, or waterways

SECTION 14: TRANSPORT INFORMATION

Mode	Status
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ADR / IMDG / IATA Not regulated

✓ Not classified as dangerous goods



SECTION 15: REGULATORY INFORMATION

- Not classified as SVHC under REACH
 - Not subject to authorisation (Annex XIV)
 - Compliant with global GHS standards
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SECTION 16: OTHER INFORMATION

This MSDS is adapted from supplier documentation (Axxence Aromatic GmbH) and reflects current regulatory data.

Information is provided for safe handling, storage, and use.