SAFETY DATA SHEET (SDS)

Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878 and GHS.

Aldehyde C-12 Lauric

SECTION 1. Identification

Product Identifier

Parameter	Details
Product Name	Aldehyde C-12 Lauric
Chemical Name	Dodecanal
Synonyms	Lauric Aldehyde
CAS Number	112-54-9
EC Number	203-983-6
Chemical Formula	$C_{12}H_{24}O$
Molecular Weight	184.32 g/mol

Recommended Use

Raw material for fragrances, perfumes, cosmetics and flavour applications where permitted.

Supplier

Aromology Trading LLC
G05 Alghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com

Emergency Telephone: +971 505197601

SECTION 2. Hazard Identification

GHS Classification

Skin Irritation Category 3
Skin Sensitisation Category 1B
Hazardous to the Aquatic Environment (Chronic Category 2)

Signal Word
Warning

Hazard Statements

H316 – Causes mild skin irritation.
H317 – May cause an allergic skin reaction.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements

P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing and eye protection.
P302 + P352 If on skin: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice.
P362 + P364 Remove contaminated clothing and wash before reuse.
P391 Collect spillage.

Other Hazards

The material may slowly oxidise on exposure to air and generate heat. Absorbent materials contaminated with the product may present a spontaneous ignition risk if not handled correctly.

SECTION 3. Composition / Information on Ingredients

Component	Information
Chemical Name	Dodecanal
Product Name	Aldehyde C-12 Lauric
CAS Number	112-54-9
EC Number	203-983-6
Purity	≥50% (supplier specification)

SECTION 4. First Aid Measures

Inhalation

Move exposed person to fresh air and keep at rest.
Seek medical advice if symptoms occur.

Skin Contact

Remove contaminated clothing.

Wash skin thoroughly with soap and water.
Obtain medical attention if irritation persists.

Eye Contact

Flush immediately with water for at least 15 minutes.
Seek medical attention.

Ingestion

Rinse mouth with water.
Do not induce vomiting.
Obtain medical advice immediately.

SECTION 5. Fire Fighting Measures

Suitable Extinguishing Media

Water spray
Carbon dioxide
Dry chemical powder
Alcohol-resistant foam

Unsuitable Media
Do not use a full water jet.

Hazardous Combustion Products

Carbon monoxide.
Organic combustion products.

Protective Equipment
Self-contained breathing apparatus and protective clothing.

SECTION 6. Accidental Release Measures

Avoid breathing vapours.
Prevent entry into drains and waterways.
Absorb with sand, dry lime or other inert, non-combustible absorbent.
Collect into suitable containers for disposal.
Ventilate the affected area.

SECTION 7. Handling and Storage

Handling

Avoid contact with skin and eyes.
Use adequate ventilation.
Wear suitable PPE.
Do not smoke while handling.

Storage

Store in tightly closed original containers.
Store in a cool, dry and well-ventilated area.
Protect from light.
Keep away from ignition sources.

SECTION 8. Exposure Controls / Personal Protection

Engineering Controls
Provide adequate ventilation.

Eye Protection
Chemical safety goggles.

Hand Protection
Chemical resistant gloves.

Respiratory Protection
Suitable respiratory protection if ventilation is insufficient.

Body Protection
Protective clothing.

SECTION 9. Physical and Chemical Properties

Property	Value
Appearance	Liquid / solid (depending on temperature)
Colour	Conforms to standard
Odour	Characteristic aldehydic
Melting Point	Approximately 8–12°C
Boiling Point	241°C
Flash Point	116°C
Density (20°C)	0.824–0.836 g/mL
Vapour Pressure	<300 hPa (50°C)
Vapour Density	>1 (Air = 1)
Water Solubility	Insoluble
Solubility	Soluble in ethanol

Log Pow	5.16

SECTION 10. Stability and Reactivity

Stable under recommended storage conditions.

Avoid:

Heat
Flames
Ignition sources
Strong acids
Strong bases
Oxidising agents

Hazardous Decomposition Products:

Carbon monoxide
Organic decomposition products

SECTION 11. Toxicological Information

May cause mild skin irritation.
May cause allergic skin reaction.

No evidence of:

Carcinogenicity
Mutagenicity
Reproductive toxicity
STOT effects
Aspiration hazard

SECTION 12. Ecological Information

Toxic to aquatic life with long lasting effects.
Readily biodegradable (>73%, OECD 301F).
Avoid release into the environment.

SECTION 13. Disposal Considerations

Dispose of contents and containers in accordance with local and national environmental regulations.

SECTION 14. Transport Information

Item	Information
UN Number	UN3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Dodecanal)
Hazard Class	9
Packing Group	III
Marine Pollutant	Yes

SECTION 15. Regulatory Information

Prepared in accordance with the Globally Harmonized System (GHS).

SECTION 16. Other Information

Disclaimer

This Safety Data Sheet is based on the supplier's current technical and safety information and is believed to be accurate at the date of issue. It is intended solely as guidance for the safe handling, storage, transportation, use, and disposal of the product. It does not constitute a warranty or product specification. Users are responsible for ensuring compliance with all applicable local, national, and international regulations.

Authorised by:
Fozia Khot
Director