



SAFETY DATA SHEET (SDS)

In accordance with the Globally Harmonized System (GHS)

SECTION 1. Identification

1.1 Product Identifier

Product Name: Aldehyde C-18

Chemical Name: γ -Nonalactone (Gamma-Nonalactone)

Synonyms: Aldehyde C-18, Gamma Nonalactone

CAS Number: 104-61-0

EC Number: 203-219-1

Chemical Formula: $C_9H_{16}O_2$

Molecular Weight: 156.22 g/mol

1.2 Relevant Identified Uses

Raw material for:

- Fine Fragrance
- Cosmetics
- Personal Care Products
- Soap & Detergent Fragrances
- Flavour Applications (where permitted)
- Household Fragrance Products



1.3 Supplier

Aromology Trading LLC

G05 Al Ghazal Building
Nadd Al Hamar
Dubai
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SECTION 2. Hazard Identification

GHS Classification

Based on available supplier data, this substance is not classified as hazardous under the GHS or CLP Regulation when supplied as a pure material.

Signal Word

None

Hazard Statements

No hazard statements required.

Precautionary Statements

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear suitable protective gloves and eye protection during prolonged industrial handling.

P501 Dispose of contents/container in accordance with local regulations.

Other Hazards

No additional hazards known under normal conditions of use.



SECTION 3. Composition / Information on Ingredients

Component	Information
Chemical Name	Gamma-Nonalactone
Product Name	Aldehyde C-18
CAS Number	104-61-0
EC Number	203-219-1
Purity	Typically $\geq 99\%$

SECTION 4. First Aid Measures

Inhalation

Move the exposed person to fresh air.

Seek medical advice if symptoms persist.

Skin Contact

Wash thoroughly with soap and water.

Remove contaminated clothing.

Eye Contact

Flush immediately with plenty of water for at least 15 minutes.

Seek medical attention if irritation persists.

Ingestion

Rinse mouth thoroughly.

Do not induce vomiting.

Obtain medical advice if discomfort occurs.

SECTION 5. Fire Fighting Measures

Suitable Extinguishing Media

- Dry chemical
- Carbon dioxide
- Alcohol-resistant foam
- Water spray

Unsuitable Media

High-pressure water jet.

Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

Protective Equipment

Self-contained breathing apparatus.

Protective clothing.

SECTION 6. Accidental Release Measures

Prevent release into drains and waterways.

Absorb with inert absorbent material.

Collect into suitable containers for disposal.

Clean contaminated surfaces thoroughly.

SECTION 7. Handling and Storage



Handling

Avoid unnecessary contact with skin and eyes.

Use adequate ventilation.

Observe good industrial hygiene practices.

Storage

Store in tightly closed original containers.

Protect from:

- Heat
- Direct sunlight
- Moisture

Recommended storage temperature:

15–25°C.

SECTION 8. Exposure Controls / Personal Protection

Engineering Controls

General room ventilation is normally adequate.

Eye Protection

Safety glasses.

Hand Protection

Chemical-resistant gloves.

Respiratory Protection

Normally not required under normal conditions of use.

Body Protection



Protective clothing where repeated exposure may occur.

SECTION 9. Physical and Chemical Properties

Property	Value
Appearance	Clear, colourless to pale yellow liquid
Odour	Sweet, creamy, coconut, milky, peach-like
Physical State	Liquid
Molecular Weight	156.22 g/mol
Boiling Point	Approximately 270°C
Flash Point	Approximately 110°C
Density @20°C	Approximately 0.98 g/cm ³
Refractive Index @20°C	Approximately 1.449–1.453
Water Solubility	Slightly soluble
Solubility	Soluble in alcohol and fragrance solvents

SECTION 10. Stability and Reactivity

Stable under recommended storage conditions.

Avoid:

- Excessive heat
- Strong oxidising agents
- Strong acids
- Strong alkalis

Hazardous decomposition products:

- Carbon monoxide
- Carbon dioxide



Hazardous polymerisation will not occur.

SECTION 11. Toxicological Information

Likely routes of exposure:

- Skin
- Eyes
- Inhalation

Expected effects:

- Mild eye irritation following prolonged exposure.
- Mild skin irritation may occur in sensitive individuals.

No evidence of:

- Carcinogenicity
 - Mutagenicity
 - Reproductive toxicity
 - STOT effects
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SECTION 12. Ecological Information

Avoid uncontrolled release into the environment.

No significant ecological hazards are expected under normal conditions of use.

Dispose responsibly.

SECTION 13. Disposal Considerations

Dispose of contents and containers through an approved waste disposal contractor in accordance with local and national regulations.



SECTION 14. Transport Information

Item	Information
UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Hazard Class	Not Applicable
Packing Group	Not Applicable
Marine Pollutant	No

SECTION 15. Regulatory Information

Prepared in accordance with:

- Globally Harmonized System (GHS)
 - Regulation (EC) No. 1272/2008 (CLP), where applicable
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SECTION 16. Other Information

Issue Date: 18 February 2026

Revision: 1.0

Prepared By

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Disclaimer

This Safety Data Sheet has been prepared from available supplier information, published scientific data, and industry reference information for Gamma-Nonalactone (Aldehyde C-18, CAS 104-61-0). It is intended as guidance for the safe handling, storage, transportation, and use of the material and should not be interpreted as a product specification or warranty. Users are responsible for determining the suitability of the product for their intended application and for complying with all applicable regulations.