



MATERIAL SAFETY DATA SHEET (MSDS)

ALDEHYDE C-14 (Gamma-Undecalactone)

SECTION 1: Identification of the Substance and Company

Product Name: Aldehyde C-14 (Gamma-Undecalactone)

Chemical Name: Gamma-Undecalactone

CAS Number: 104-67-6

EC Number: 203-225-4

Recommended Use:

Raw material for perfumery, fragrances, cosmetics, flavor and aroma compositions.

Supplier:

Aromology

G15 Union Coop Mall

Nadd Al Hamar

Dubai, United Arab Emirates

Emergency Contact: Available upon request

SECTION 2: Hazard Identification

GHS Classification:

- Aquatic Acute – Category 2
- Aquatic Chronic – Category 3

Hazard Statements:

- H401: Toxic to aquatic life
- H412: Harmful to aquatic life with long lasting effects

Precautionary Statements:

- P273: Avoid release to the environment
- P501: Dispose of contents/container in accordance with local regulations

Other Hazards:

No additional physical or health hazards identified.

SECTION 3: Composition / Information on Ingredients



Component	CAS No.	Concentration
-----------	---------	---------------

Gamma-Undecalactone	104-67-6	≥ 50%
---------------------	----------	-------

Nature: Substance

SECTION 4: First Aid Measures

Inhalation:

Move to fresh air and keep at rest. Seek medical advice if symptoms persist.

Skin Contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water.

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.

Ingestion:

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

Symptoms:

No specific symptoms known.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media:

Water spray, carbon dioxide (CO₂), dry chemical powder, or foam.

Specific Hazards:

May emit toxic fumes under fire conditions.

Protective Equipment:

Self-contained breathing apparatus and protective clothing recommended.

SECTION 6: Accidental Release Measures

Personal Precautions:

Ensure adequate ventilation. Avoid contact with skin and eyes.

Environmental Precautions:

Prevent discharge into drains, surface waters, or soil.

Cleanup Methods:

Absorb with inert material (sand, soda ash, dry lime). Collect in suitable containers for disposal.



SECTION 7: Handling and Storage

Handling:

Avoid contact with eyes and skin. Follow good industrial hygiene practices.

Storage:

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

Incompatible Materials:

Strong oxidizing agents, strong acids, strong bases.

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits:

Not established.

Personal Protective Equipment:

- Eye protection: Chemical safety goggles
- Hand protection: Chemical-resistant gloves
- Respiratory protection: Use if ventilation is inadequate

Environmental Controls:

Ensure emissions comply with environmental regulations.

SECTION 9: Physical and Chemical Properties

Property	Value
Physical State	Liquid
Color	Conforms to standard
Odor	Characteristic
Boiling Point	~279 °C
Flash Point	~113 °C
Density (20 °C)	0.941–0.945 g/mL
Solubility	Soluble in ethanol
Water Solubility	Limited



SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions.

Reactivity: No hazardous reactions expected.

Conditions to Avoid: Heat, flames, ignition sources.

Hazardous Decomposition Products: Carbon monoxide, organic compounds.

SECTION 11: Toxicological Information

Based on available data, the substance is not classified for:

- Acute toxicity
 - Skin corrosion/irritation
 - Eye damage
 - Sensitization
 - Carcinogenicity
 - Reproductive toxicity
 - STOT (single or repeated exposure)
 - Aspiration hazard
-

SECTION 12: Ecological Information

Aquatic Toxicity:

Toxic to aquatic life. Harmful with long lasting effects.

Biodegradability:

Readily biodegradable (>82%, OECD 301).

Bioaccumulation:

No data available.

Environmental Precautions:

Avoid release to waterways.

SECTION 13: Disposal Considerations

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



SECTION 14: Transport Information

UN Number: Not regulated

ADR / IMDG / IATA: Not classified as dangerous goods

Environmental Hazard: No

SECTION 15: Regulatory Information

Complies with applicable GHS and international chemical safety regulations.

SECTION 16: Other Information

Hazard statement text:

- H401 – Toxic to aquatic life
- H412 – Harmful to aquatic life with long lasting effects

This MSDS is based on current knowledge and intended for safety guidance only.