



MATERIAL SAFETY DATA SHEET (MSDS)

IONONE ALPHA (α -Ionone)

SECTION 1: Identification of the Substance and Company

Product Name: Ionone Alpha

Chemical Name: α -Ionone

CAS Number: 127-41-3

EC Number: 204-841-6

Recommended Use:

Raw material for perfumery, fragrances, cosmetics, and flavour 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:

- Acute Toxicity (Oral) – Category 5
- Skin Irritation – Category 3
- Aquatic Acute – Category 2
- Aquatic Chronic – Category 3

Signal Word: Warning

Hazard Statements:

- H303 – May be harmful if swallowed
- H316 – Causes mild skin irritation
- H401 – Toxic to aquatic life
- H412 – Harmful to aquatic life with long lasting effects

Precautionary Statements:

- P273 – Avoid release to the environment



- P312 – Call a poison center or doctor if you feel unwell
- P332+P313 – If skin irritation occurs: Get medical advice
- P501 – Dispose of contents/container according to local regulations

Other Hazards:

No additional hazards identified.

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration
α -Ionone	127-41-3	$\geq 50\%$
β -Ionone	14901-07-6	$\geq 10\% - < 25\%$
γ -Ionone	79-76-5	$\geq 1\% - < 10\%$

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:

Mild skin irritation; gastrointestinal discomfort if ingested.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media:

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

Specific Hazards:

May emit toxic fumes under fire conditions.

Protective Equipment:

Self-contained breathing apparatus and full protective clothing recommended.



SECTION 6: Accidental Release Measures

Personal Precautions:

Ensure adequate ventilation. Avoid contact with skin and eyes.

Environmental Precautions:

Prevent entry into drains, surface water, 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 skin and eyes. Follow good industrial hygiene practices.

Storage:

Store in tightly closed containers in a cool, dry, well-ventilated area.

Protect from heat, sparks, and open flames.

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



Property	Value
Color	Conforms to standard
Odor	Characteristic
Boiling Point	~260 °C
Flash Point	~113 °C
Density (20 °C)	0.926–0.936 g/mL
Vapor Pressure (25 °C)	~0.02 mbar
Water Solubility	~0.27 g/L
Solubility	Soluble in ethanol

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions.

Reactivity: No hazardous reactions expected.

Conditions to Avoid: Excessive heat, flames, ignition sources.

Hazardous Decomposition Products: Carbon monoxide, organic compounds.

SECTION 11: Toxicological Information

Acute Toxicity:

May be harmful if swallowed.

Skin Irritation:

Causes mild skin irritation.

Other Effects:

Based on available data, not classified for eye damage, sensitization, mutagenicity, carcinogenicity, reproductive toxicity, STOT, or aspiration hazard.

SECTION 12: Ecological Information

Aquatic Toxicity:

Toxic to aquatic life. Harmful with long lasting effects.

Persistence and Degradability:

No data available.



Bioaccumulation:
No data available.

Environmental Precautions:
Avoid release into waterways.

SECTION 13: Disposal Considerations

Dispose of contents 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:

- H227 – Combustible liquid
- H303 – May be harmful if swallowed
- H316 – Causes mild skin irritation
- H401 – Toxic to aquatic life
- H411 – Toxic to aquatic life with long lasting effects
- H412 – Harmful to aquatic life with long lasting effects

This MSDS is provided for safety guidance and regulatory purposes only.