



SAFETY DATA SHEET (SDS)

Product Name: Isomuscone Cyclohexadecanone
Chemical Name: Cyclohexadecanone (Isomuscone)
CAS Number: 2550-52-9
EC Number: 438-930-8
Product Type: Aroma Chemical (Macrocyclic Musk)
Recommended Use: Fragrance ingredient for perfumery and cosmetic applications.
Supplier: Aromology Trading LLC
Issue Date: 14 June 2025
Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Product Name: Isomuscone (Cyclohexadecanone)

Chemical Name: Cyclohexadecanone

CAS Number: 2550-52-9

EC Number: 219-847-8

1.2 Recommended Use

Fragrance ingredient for perfumery, cosmetics, personal care products and home fragrance applications.

Not intended for food, pharmaceutical or medicinal use.

1.3 Supplier Details

Aromology Trading LLC

G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Telephone: +971 505 197 601

Email: info@aromology.com

Website: www.aromology.com

1.4 Emergency Telephone Number



+971 505 197 601

SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS Classification

Based on available supplier information and industry data, this material is **not classified as hazardous** according to the UN Globally Harmonized System (GHS).

2.2 Label Elements

Signal Word

None

Hazard Statements

Not classified as hazardous.

Precautionary Statements

- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke while using this product.
- P273 Avoid unnecessary release to the environment.
- P280 Wear suitable protective gloves and eye protection when handling large quantities.
- P501 Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards

Dust generated from the solid material may cause mild mechanical irritation to the eyes or respiratory tract.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Component	CAS Number	Concentration
Cyclohexadecanone (Isomuscone)	2550-52-9	≥99%

SECTION 4: FIRST AID MEASURES



Inhalation

Move to fresh air. Obtain medical attention if symptoms persist.

Skin Contact

Wash thoroughly with soap and water.

Eye Contact

Flush cautiously with water for at least 15 minutes.

Seek medical attention if irritation persists.

Ingestion

Rinse mouth with water.

Do not induce vomiting.

Seek medical advice if discomfort occurs.

Symptoms

- Mild eye irritation
- Mild skin irritation after prolonged contact

Medical Attention

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Media

Direct water jet.



Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide
- Organic decomposition products

Protective Equipment

Self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid creating dust.

Provide adequate ventilation.

Prevent release into drains and waterways.

Collect mechanically or absorb with inert material.

Dispose of according to local regulations.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid excessive dust formation.

Use adequate ventilation.

Avoid prolonged skin contact.

Observe good industrial hygiene practices.

Storage

Store below 25°C.

Keep container tightly closed.

Protect from moisture and direct sunlight.



Store away from strong oxidising agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

No occupational exposure limits established.

Engineering Controls

General ventilation is normally sufficient.

Personal Protective Equipment

Eye Protection

Safety glasses.

Skin Protection

Protective gloves.

Respiratory Protection

Not normally required under standard handling conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	White crystalline solid
Odour	Clean, musky, warm, powdery
Physical State	Solid
Melting Point	36–40°C
Boiling Point	Approximately 300°C
Flash Point	Approximately 140°C
Relative Density	Approximately 0.93
Refractive Index	Not applicable (solid)
Solubility	Insoluble in water; soluble in alcohol and perfumery solvents
Vapour Pressure	Very low



SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions expected.

Chemical Stability

Stable under recommended storage conditions.

Hazardous Reactions

None known.

Conditions to Avoid

- Excessive heat
- Strong oxidising agents

Hazardous Decomposition Products

Carbon oxides and organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Skin
- Eyes
- Inhalation of dust
- Ingestion

Effects

Skin

Prolonged contact may cause mild irritation.

Eyes

Dust may cause mechanical irritation.

Respiratory



Dust may irritate the respiratory tract.

Sensitisation

Not expected to be a skin sensitiser under normal conditions.

Carcinogenicity

No evidence of classification.

Mutagenicity

No evidence of classification.

Reproductive Toxicity

No evidence of classification.

SECTION 12: ECOLOGICAL INFORMATION

Avoid unnecessary release into the environment.

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

Persistence

Expected to be inherently biodegradable.

Bioaccumulation

Low potential.

Mobility

Low water solubility.

SECTION 13: DISPOSAL CONSIDERATIONS

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



Do not dispose into drains or natural waterways.

SECTION 14: TRANSPORT INFORMATION

Parameter	Information
UN Number	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing Group	Not applicable
Marine Pollutant	No

SECTION 15: REGULATORY INFORMATION

Prepared in accordance with:

- UN GHS (Latest Edition)
 - Regulation (EC) No. 1272/2008 (CLP)
 - Regulation (EC) No. 1907/2006 (REACH), where applicable
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SECTION 16: OTHER INFORMATION

This Safety Data Sheet has been prepared using available supplier information and accepted industry data for fragrance raw materials.

The information contained herein is believed to be accurate at the date of issue and is intended solely to provide guidance for the safe handling, storage, transport and use of this material.

Prepared By

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Version: 1.0

