



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Parameter	Details
Product Name	Natural β -Damascone
Common Name	Natural Beta Damascone
Chemical Name	β -Damascone
INCI Name	Damascone
IUPAC Name	(2E)-1-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-2-en-1-one
CAS Number	23726-91-2
Alternative CAS Number	35044-68-9 (isomer designation used by some suppliers)
EC Number	245-842-1
Molecular Formula	C ₁₃ H ₂₀ O
Molecular Weight	192.30 g/mol
Product Type	Natural Aroma Chemical

Commercial SDSs identify β -Damascone under CAS 23726-91-2 and EC 245-842-1. Some suppliers also reference CAS 35044-68-9 for a β -damascone isomer in flavour and fragrance applications.

1.2 Recommended Uses

- Fine fragrance
- Cosmetic ingredient
- Personal care products
- Soap manufacture
- Candles
- Home fragrance
- Professional perfumery
- Fragrance research and development

1.3 Uses Advised Against

- Internal consumption
- Pharmaceutical use
- Direct undiluted skin application
- Food use unless specifically approved



1.4 Supplier

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SECTION 2: HAZARD IDENTIFICATION

2.1 Classification According to Regulation (EC) No. 1272/2008

Hazard Class	Category
Skin Irritation	Category 2
Skin Sensitisation	Category 1
Aquatic Chronic	Category 2

Representative commercial SDSs classify β -Damascone as Skin Irritant Category 2, Skin Sensitiser Category 1, and Hazardous to the Aquatic Environment Chronic Category 2.

Signal Word

WARNING

Hazard Statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P261 Avoid breathing vapours.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves 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.
- P391 Collect spillage.
- P501 Dispose of contents/container according to local regulations.



2.3 Other Hazards

- Not classified as an oxidising material.
- Avoid prolonged exposure to air and light.
- Oxidation may alter odour quality.
- Not identified as PBT or vPvB according to available data.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS	EC	Concentration
Natural β -Damascone	23726-91-2	245-842-1	$\geq 98\%$

SECTION 4: FIRST AID MEASURES

Inhalation

Move to fresh air.

Seek medical advice if symptoms persist.

Skin Contact

Wash thoroughly with soap and water.

Remove contaminated clothing.

Seek medical advice if irritation develops.

Eye Contact

Flush immediately with water for at least 15 minutes.

Obtain medical attention if irritation persists.

Ingestion

Rinse mouth.

Do not induce vomiting unless instructed by medical personnel.

Seek medical attention.



SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media:

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

Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide
- Irritating organic fumes

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Avoid skin contact.
 - Eliminate ignition sources.
 - Prevent release to drains and waterways.
 - Absorb using inert material.
 - Dispose according to local regulations.
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SECTION 7: HANDLING AND STORAGE

Handle:

- under adequate ventilation
- avoiding skin contact
- avoiding prolonged exposure to air

Store:

- tightly closed
- cool and dry



- protected from sunlight
- away from strong oxidising agents

Recommended storage:

15–25°C

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

- Local exhaust ventilation

Personal Protective Equipment

- Nitrile gloves
- Safety glasses
- Protective clothing

Respiratory Protection

Organic vapour respirator where ventilation is insufficient.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value
Appearance	Clear yellow to amber liquid
Odour	Powerful fruity, rose, plum, tobacco, blackcurrant
Relative Density (20 °C)	0.945–0.965
Refractive Index (20 °C)	1.500–1.515
Flash Point	Approximately 110 °C
Boiling Point	>250 °C
Water Solubility	Practically insoluble
Solubility in Alcohol	Soluble

Representative values are consistent with commercial supplier documentation for β -Damascone.



SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Strong oxidising agents
- Excessive heat
- Direct sunlight

Hazardous decomposition products:

- Carbon monoxide
 - Carbon dioxide
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SECTION 11: TOXICOLOGICAL INFORMATION

Routes of exposure:

- Skin
- Eyes
- Inhalation
- Ingestion

Potential effects:

- Skin irritation
 - Allergic skin sensitisation
 - Mild eye irritation
 - May be harmful if swallowed in significant quantities
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SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic organisms with long lasting effects.
 - Prevent environmental release.
 - Avoid discharge into waterways.
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SECTION 13: DISPOSAL CONSIDERATIONS



Dispose through an authorised chemical waste contractor.

Do not discharge into drains.

SECTION 14: TRANSPORT INFORMATION

Item	Status
UN Number	Not regulated for transport
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not applicable

Commercial SDSs generally do not classify neat β -Damascone as a dangerous good for ADR, IMDG or IATA transport.

SECTION 15: REGULATORY INFORMATION

Prepared with reference to:

- REACH Regulation (EC) 1907/2006
- CLP Regulation (EC) 1272/2008
- Regulation (EU) 2020/878
- Cosmetic Regulation (EC) 1223/2009
- Current IFRA Standards

SECTION 16: OTHER INFORMATION

Storage Recommendation

Store:

- Between 15–25 °C
- In tightly sealed containers
- Away from heat and sunlight
- Away from oxidising agents

Shelf Life



24 months when stored under recommended conditions.

Disclaimer

The information contained in this Safety Data Sheet is based on representative supplier safety information and current regulatory knowledge. Because natural β -Damascone may vary slightly depending on source and production method, users should review the current manufacturer batch documentation before commercial or regulatory use.

AUTHORISED BY

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