



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	Nootkatone Crystals
Chemical Name	Nootkatone
Synonyms	Valencene Ketone
INCI Name	Nootkatone
CAS Number	4674-50-4
EC Number	225-124-4
FEMA Number	3166
Molecular Formula	C ₁₅ H ₂₂ O
Molecular Weight	218.34 g/mol
Product Type	Natural Aroma Chemical
Physical Form	Crystalline Solid

Nootkatone is a naturally occurring sesquiterpene ketone found in grapefruit (*Citrus paradisi*), Alaska yellow cedar (*Callitropsis nootkatensis*), and other botanical sources. Commercial natural nootkatone is produced by isolation or bioconversion from natural valencene.

1.2 Recommended Uses

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

1.3 Uses Advised Against

- Internal consumption
- Pharmaceutical use unless specifically authorised
- Direct undiluted skin application



- Food use unless separately approved

1.4 Supplier

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SECTION 2: HAZARD IDENTIFICATION

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

Based on available supplier safety information for natural nootkatone:

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

Signal Word

WARNING

Hazard Statements

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P261 Avoid breathing dust.
- P264 Wash thoroughly after handling.
- P272 Contaminated 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.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.



- P333+P313 If skin irritation or rash occurs: Get medical advice.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards

- Fine dust may cause mild mechanical irritation.
- Dust accumulation should be minimised.
- Not identified as PBT or vPvB based on available information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS	EC	Concentration
Natural Nootkatone	4674-50-4	225-124-4	≥98%

SECTION 4: FIRST AID MEASURES

Inhalation

Move the exposed person to fresh air.

Seek medical attention if irritation persists.

Skin Contact

Wash thoroughly with soap and water.

Remove contaminated clothing.

Seek medical advice if sensitisation develops.

Eye Contact

Flush eyes with clean water for at least 15 minutes.

Obtain medical attention if irritation persists.

Ingestion

Rinse mouth with water.

Do not induce vomiting.



Seek medical advice if discomfort occurs.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

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

Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Avoid formation of airborne dust.
 - Ensure adequate ventilation.
 - Wear suitable PPE.
 - Prevent release into drains and waterways.
 - Sweep or vacuum into suitable containers.
 - Dispose of according to local regulations.
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SECTION 7: HANDLING AND STORAGE

Handle:

- In well-ventilated areas.
- Avoid dust generation.
- Avoid contact with skin and eyes.

Store:



- Between 15–25 °C.
- In tightly closed containers.
- Protected from moisture and direct sunlight.
- Away from oxidising agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local exhaust ventilation where dust may be generated.

Personal Protective Equipment

- Nitrile gloves
- Chemical safety glasses
- Protective clothing

Respiratory Protection

Dust mask or approved particulate respirator where airborne dust is generated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value
Appearance	White to off-white crystalline solid
Odour	Powerful grapefruit, woody, citrus, dry
Melting Point	34–38 °C
Relative Density (25 °C)	Approximately 0.97
Refractive Index (Molten)	Approximately 1.505
Flash Point	>100 °C
Solubility in Water	Practically insoluble
Solubility in Ethanol	Soluble

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:



- Excessive heat
- Strong oxidising agents
- Moisture
- 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:

- May cause skin sensitisation.
 - Causes eye irritation.
 - Dust may irritate the respiratory tract.
 - Low acute toxicity under normal conditions of use.
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SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic organisms with long-lasting effects.
 - Avoid environmental release.
 - Not readily soluble in water.
 - Prevent discharge into drains and waterways.
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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and packaging through an authorised chemical waste contractor.



Do not discharge into drains.

SECTION 14: TRANSPORT INFORMATION

Item	Details
UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not applicable
Marine Pollutant	No

Transport classification should always be confirmed using the supplier's batch-specific SDS where large commercial consignments are involved.

SECTION 15: REGULATORY INFORMATION

Prepared with reference to:

- Regulation (EC) No. 1907/2006 (REACH)
 - Regulation (EU) 2020/878
 - Regulation (EC) No. 1272/2008 (CLP)
 - Regulation (EC) No. 1223/2009 (Cosmetic Products)
 - Current IFRA Standards
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SECTION 16: OTHER INFORMATION

Storage Recommendation

Store:

- Between 15–25 °C
- In tightly sealed original containers
- Protected from moisture, heat and sunlight

Shelf Life

24 months under recommended storage conditions.



Disclaimer

The information contained in this Safety Data Sheet is based on representative supplier data and current regulatory knowledge for natural nootkatone. Physical and analytical properties may vary slightly depending on the natural source and production method. This document is intended solely as guidance for the safe handling, storage, transport and use of the product and does not constitute a product specification or warranty.

AUTHORISED BY

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