



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS), Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), and UAE GSO requirements

SECTION 1: Identification

1.1 Product Identifier

Product Name: Borneol Crystals Natural

Chemical Name: Borneol

CAS Number: 464-45-9

EC Number: 207-353-1

INCI Name: Borneol

1.2 Recommended Use

Raw material for:

- Fine Fragrance
 - Cosmetics
 - Personal Care Products
 - Soap
 - Candles
 - Home Fragrance
 - Professional Perfumery Applications
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1.3 Restrictions on Use

For industrial and professional use only.

Not intended for direct consumer use or internal consumption.



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SECTION 2: Hazard Identification

GHS Classification

- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- Specific Target Organ Toxicity (Single Exposure) – Category 3 (Respiratory Irritation)

Signal Word

WARNING

Hazard Statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary Statements

- P261 Avoid breathing dust or vapours.



- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P332+P313 If skin irritation occurs: Get medical advice.
- P337+P313 If eye irritation persists: Get medical advice.
- P501 Dispose of contents/container according to local regulations.

SECTION 3: Composition / Information on Ingredients

Component	CAS Number	EC Number	Concentration
Natural Borneol	464-45-9	207-353-1	≥98%

SECTION 4: First Aid Measures

Eye Contact

Flush immediately with clean water for at least 15 minutes.

Seek medical attention if irritation persists.

Skin Contact

Wash thoroughly with soap and water.

Remove contaminated clothing.

Seek medical advice if irritation develops.

Inhalation

Move the affected person to fresh air.

Seek medical advice if respiratory irritation persists.



Ingestion

Rinse mouth thoroughly.

Do not induce vomiting.

Seek medical attention if unwell.

Most Important Symptoms

- Eye irritation
- Skin irritation
- Respiratory irritation
- Headache or dizziness after excessive exposure

SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media

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

Unsuitable

Direct water jet.

Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide

Protective Equipment

Self-contained breathing apparatus.

SECTION 6: Accidental Release Measures



Wear suitable personal protective equipment.

Avoid creating dust.

Prevent release into drains and waterways.

Collect crystals by sweeping carefully into suitable containers.

SECTION 7: Handling and Storage

Handling

Avoid inhalation of dust.

Avoid contact with eyes.

Use adequate ventilation.

Observe good industrial hygiene.

Storage

Store:

- Cool
- Dry
- Well ventilated

Keep container tightly closed.

Recommended storage temperature:

15–25 °C

Protect from:

- Heat
 - Moisture
 - Direct sunlight
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SECTION 8: Exposure Controls / Personal Protection

Engineering Controls

Provide adequate ventilation.

Eye Protection

Chemical safety goggles.

Hand Protection

Nitrile gloves.

Respiratory Protection

Dust mask or organic vapour respirator where dust generation may occur.

Protective Clothing

Chemical-resistant protective clothing.

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	White crystalline solid
Colour	White
Odour	Camphoraceous, fresh, woody
Physical State	Crystals
Molecular Formula	$C_{10}H_{18}O$
Molecular Weight	154.25 g/mol
Melting Point	208–210 °C
Boiling Point	Approximately 213 °C
Flash Point	Approximately 65 °C
Relative Density	Approximately 1.01 g/cm ³
Solubility	Slightly soluble in water; soluble in ethanol, ether and organic solvents

SECTION 10: Stability and Reactivity



Stable under recommended storage conditions.

Avoid

- Strong oxidising agents
- Excessive heat
- Open flames

Hazardous Decomposition Products

- Carbon monoxide
- Carbon dioxide

SECTION 11: Toxicological Information

Acute Toxicity

Low acute toxicity under normal handling conditions.

Skin Contact

May cause irritation.

Eye Contact

Causes irritation.

Respiratory Effects

Dust or vapour may irritate the respiratory tract.

Skin Sensitisation

Not expected under normal conditions of use.

Carcinogenicity

Not classified.

Mutagenicity

Not classified.



Reproductive Toxicity

Not classified.

SECTION 12: Ecological Information

Ecotoxicity

Avoid uncontrolled release into the environment.

Persistence

Expected to be biodegradable.

Bioaccumulation

Low potential.

SECTION 13: Disposal Considerations

Dispose through an authorised waste disposal contractor.

Do not discharge into drains.

Dispose of packaging according to local regulations.

SECTION 14: Transport Information

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

SECTION 15: Regulatory Information



Prepared in accordance with:

- GHS (Globally Harmonized System)
- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EC) No. 1272/2008 (CLP)
- UAE GSO Chemical Safety Requirements
- IFRA Guidance

SECTION 16: Other Information

Intended Use

This material is supplied exclusively as a naturally derived fragrance ingredient for industrial, cosmetic, personal care, and professional perfumery applications.

Disclaimer

The information contained in this Safety Data Sheet is based on currently available scientific knowledge and published safety information for Borneol (CAS 464-45-9) and is intended as guidance for safe handling, storage, transportation, use, and disposal. Users remain responsible for ensuring compliance with all applicable regulations.

Authorized By

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