



SAFETY DATA SHEET (SDS)

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

Brahmanol®

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

Product Name: Brahmanol®
Manufacturer: Symrise
Product Number: 100204
CAS Number: 72089-08-8

Chemical Name:
 β ,2,2,3-Tetramethylcyclopent-3-ene-1-butanol

Molecular Formula: C₁₃H₂₄O
Molecular Weight: 196.3 g/mol

Chemical Class: Alcohol

1.2 Recommended Use: Professional fragrance ingredient / aroma chemical.

Primary Perfumery Function: Sandalwood replacer / woody fragrance material.

Odour Family: Woody / Sandalwood

Odour Description:
Soft, creamy, warm sandalwood character with smooth woody volume and excellent tenacity.

1.3 Uses

Suitable for:

- Fine fragrance
- Sandalwood accords
- Woody compositions
- Amber fragrances
- Oriental compositions
- Musk accords
- Floral-woody compositions
- Functional perfumery



1.4 Supplier

Aromology Trading LLC

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Nadd Al Hamar

Dubai, United Arab Emirates

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SECTION 2 – HAZARDS IDENTIFICATION

2.1 GHS Classification

Available current SDS documentation for Brahmanol® (Symrise) classifies the material as:

Hazard Class	Classification
Acute Toxicity – Dermal	Category 5
Skin Sensitisation	Category 1
Serious Eye Damage / Eye Irritation	Category 2A

2.2 Signal Word

WARNING

2.3 Hazard Statements

H313 – May be harmful in contact with skin.

H317 – May cause an allergic skin reaction.

H319 – Causes serious eye irritation.

2.4 Precautionary Statements

P261 – Avoid breathing vapour or dust.

P264 – Wash hands and exposed skin thoroughly after handling.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective gloves / eye protection / face 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. Remove contact lenses, if present and easy to do. Continue rinsing.



P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Specification
Brahmanol®	72089-08-8	Principal component
GC Purity	—	Minimum 90%

Chemical Information

Formula: $C_{13}H_{24}O$

Molecular Weight: 196.3 g/mol

Chemical Family: Alcohol

Brahmanol® is a synthetic fragrance material designed primarily for sandalwood and woody fragrance applications.

SECTION 4 – FIRST AID MEASURES

Inhalation

Move the affected person to fresh air.

Keep at rest and comfortable for breathing.

Seek medical attention if respiratory symptoms or irritation persist.

Skin Contact

Immediately remove contaminated clothing.

Wash affected skin thoroughly with plenty of soap and water.

Because Brahmanol® may cause an allergic skin reaction, seek medical attention if irritation, redness or rash develops.

Wash contaminated clothing before reuse.

Eye Contact

Immediately rinse cautiously with clean water for several minutes.

Remove contact lenses if present and easy to do.

Continue rinsing for at least 15 minutes.

Seek medical attention if irritation persists.

Ingestion

Rinse mouth thoroughly.

Do not induce vomiting unless instructed by medical personnel.

Seek medical advice if significant quantities have been swallowed or symptoms develop.

SECTION 5 – FIRE-FIGHTING MEASURES



Suitable Extinguishing Media

Use:

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

Flash Point

>100°C

Hazardous Combustion Products

Thermal decomposition or combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

Firefighter Protection

Wear suitable protective equipment and self-contained breathing apparatus where necessary.

Cool exposed containers with water spray.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Avoid contact with skin and eyes.
- Wear suitable protective gloves.
- Wear safety glasses/goggles.
- Ensure adequate ventilation.
- Avoid breathing vapours or aerosols.

Environmental Precautions

Prevent concentrated material from entering:

- Drains
- Sewers
- Surface water
- Groundwater
- Soil



Cleaning Method

Absorb spilled material using:

- Sand
- Vermiculite
- Diatomaceous earth
- Universal chemical absorbent

Transfer into suitable labelled waste containers.

Clean contaminated surfaces thoroughly.

SECTION 7 – HANDLING AND STORAGE

Handling

Use according to good industrial hygiene and safety practices.

Avoid:

- Skin contact
- Eye contact
- Unnecessary inhalation
- Contamination of clothing

Wear appropriate PPE during weighing, filling and formulation.

Storage

Store:

- In original or suitable compatible containers
 - Tightly closed
 - In a cool location
 - In a dry area
 - Away from excessive heat
 - Protected from direct sunlight
 - Away from strong oxidising agents
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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls



Provide adequate general or local exhaust ventilation where required.

Eye Protection

Wear: Chemical safety glasses or goggles

Hand Protection

Wear suitable chemical-resistant gloves.

Nitrile gloves are generally appropriate for routine fragrance-material handling, subject to workplace risk assessment.

Skin Protection

Wear suitable:

- Laboratory coat
- Protective clothing
- Closed footwear

Respiratory Protection

Normally not required where adequate ventilation is available.

If vapours or aerosols are generated at significant concentration, use appropriate respiratory protection according to workplace assessment.

Hygiene Measures

Wash hands thoroughly after handling.

Do not eat, drink or smoke while working with the material.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Symrise Specification / Data
Appearance	Clear liquid
Colour	Colourless
Odour	Woody / Sandalwood
CAS	72089-08-8
Molecular Formula	C ₁₃ H ₂₄ O
Molecular Weight	196.3 g/mol
GC Purity	Minimum 90%
Flash Point	>100 °C
Boiling Point	272.6 °C
Log P (Kow)	4.73
Chemical Class	Alcohol
Stabilizer	None
Occurrence in Nature	No
Renewable Factor	69.2%



SECTION 10 – STABILITY AND REACTIVITY

Reactivity

No dangerous reaction is expected under normal storage and handling conditions.

Chemical Stability

Stable under recommended conditions.

Conditions to Avoid

Avoid:

- Excessive heat
- Direct flame
- Prolonged exposure to high temperatures

Incompatible Materials

Avoid strong oxidising agents.

Hazardous Decomposition Products

Under fire or severe thermal decomposition:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

may be generated.

SECTION 11 – TOXICOLOGICAL INFORMATION

Primary Hazards

Dermal Exposure:

May be harmful in contact with skin.

Skin Sensitisation:

May cause an allergic skin reaction.

Eye Exposure:

Causes serious eye irritation.

Relevant Classification



Endpoint	Classification
Acute Dermal Toxicity	Category 5
Skin Sensitisation	Category 1
Eye Irritation	Category 2A

Repeated or prolonged skin exposure should therefore be avoided.

SECTION 12 – ECOLOGICAL INFORMATION

Avoid unnecessary environmental release.

Due to the material's hydrophobic character and Log P of 4.73, concentrated Brahmanol® should not be discharged directly into aquatic environments.

Prevent uncontrolled release to:

- Surface water
- Groundwater
- Drains
- Soil

Detailed ecotoxicological endpoints should be taken from the current manufacturer SDS where required for regulatory assessment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of unused product through an authorised chemical-waste contractor.

Do not dispose of concentrated material through household or industrial drains.

Contaminated packaging should be:

- Properly emptied
 - Collected separately
 - Recycled or disposed of according to local regulations
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SECTION 14 – TRANSPORT INFORMATION

Transport classification should be confirmed against the current Symrise SDS applicable to the shipment and jurisdiction.



Check as applicable:

- ADR / RID
- IMDG
- IATA / ICAO
- Local dangerous-goods regulations

Do not assign a UN number or dangerous-goods classification without confirmation from the current manufacturer transport section.

SECTION 15 – REGULATORY INFORMATION

Product Identification

CAS: 72089-08-8

EU REACH Registration

01-2120739157-51

Relevant regulatory frameworks include:

- REACH Regulation (EC) No. 1907/2006
 - CLP Regulation (EC) No. 1272/2008
 - IFRA Standards
 - Regulation (EC) No. 1223/2009 where used in cosmetic products
 - Applicable national occupational and environmental legislation
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SECTION 16 – OTHER INFORMATION

Symrise Product Information

Product: Brahmanol®

Product No.: 100204

CAS: 72089-08-8

Symrise describes Brahmanol® as:

Woody / Sandalwood

with particular usefulness for:

- Sandalwood reconstitutions
- Soft woody accords
- Creamy sandalwood effects
- Long-lasting woody bases



Recommended Perfumery Use Level

0.5–10%

This is Symrise's recommended perfumery formulation range, not an IFRA maximum concentration.

Manufacturer Technical Data

- GC Purity: Minimum 90%
- Flash Point: >100°C
- Molecular Weight: 196.3 g/mol
- Boiling Point: 272.6°C
- Log P: 4.73
- Stabilizer: None
- Occurrence in Nature: No
- Renewable Factor: 69.2%
- Chemical Class: Alcohol

DISCLAIMER

This SDS has been prepared as a professional supplier-format document using available Symrise technical information and current publicly available safety documentation for Brahmanol®.

It is intended for professional perfumery raw-material documentation and informational purposes.

The latest original manufacturer-issued Symrise Safety Data Sheet should take precedence for occupational safety, transport classification, regulatory filing and emergency-response purposes.

Authorised by:

Fozia Khot
Director