



SAFETY DATA SHEET (SDS)

According to Regulation (EC) No. 1907/2006 (REACH), as amended by Regulation (EU) 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier

Product Name: Beta Pinene Natural

Chemical Name: (-)- β -Pinene (Natural)

Synonyms: Laevo- β -Pinene; (1S,5S)- β -Pinene

INCI Name: Pinene

CAS Number: 18172-67-3

EC (EINECS) Number: 242-060-2

Molecular Formula: C₁₀ H₁₆

Molecular Weight: 136.23 g/mol

Product Type: Natural Aroma Chemical

Source: Naturally isolated from conifer essential oils and turpentine fractions

Country of Origin: India

1.2 Relevant Identified Uses

- Fragrance ingredient
- Perfumery raw material
- Flavour ingredient
- Industrial aroma chemical
- For professional use only

1.3 Supplier

**Aromology Trading LLC**

G05 Al Ghazal Building

Nadd Al Hamar

Dubai

United Arab Emirates

Website: www.aromology.com

Email: info@aromology.com

1.4 Emergency Telephone

Refer to the local Poison Centre or emergency medical services.

SECTION 2: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 (CLP)

- Flammable Liquid – Category 3 (H226)
- Aspiration Hazard – Category 1 (H304)
- Skin Irritation – Category 2 (H315)
- Skin Sensitisation – Category 1 (H317)
- Specific Target Organ Toxicity (Single Exposure) – Category 3 (H335)
- Hazardous to the Aquatic Environment (Acute) – Category 1 (H400)
- Hazardous to the Aquatic Environment (Chronic) – Category 1 (H410)

The hazard classification follows published SDS information for β -pinene and its optical isomers, which are considered to have comparable toxicological properties.

Signal Word

Danger

Hazard Statements

- H226 Flammable liquid and vapour.
 - H304 May be fatal if swallowed and enters airways.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H335 May cause respiratory irritation.
 - H410 Very toxic to aquatic life with long lasting effects.
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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Substance	(-)- β -Pinene
CAS Number	18172-67-3
EC Number	242-060-2
Purity	$\geq 95\%$ Natural Grade

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Obtain medical advice if symptoms persist.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact: Flush with water for at least 15 minutes. Obtain medical attention if irritation persists.

Ingestion: Do **NOT** induce vomiting. Immediately contact a Poison Centre or physician.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

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

Hazardous combustion products:

- Carbon monoxide
 - Carbon dioxide
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SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove ignition sources.

Provide adequate ventilation.



Prevent release into drains.

Absorb with inert absorbent material.

Dispose of according to local regulations.

SECTION 7: HANDLING AND STORAGE

Store in tightly closed original containers.

Protect from:

- Heat
- Sparks
- Open flames
- Oxidising agents

Store in a cool, dry, well-ventilated area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Chemical safety goggles.

Hand Protection: Chemical-resistant gloves.

Respiratory Protection: Organic vapour respirator where ventilation is insufficient.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Clear colourless liquid
Odour	Fresh, woody, pine-like
Relative Density (25 °C)	Approximately 0.866
Refractive Index (20 °C)	Approximately 1.478
Boiling Point	165–167 °C
Flash Point	Approximately 36 °C
Solubility	Insoluble in water; soluble in alcohol and organic solvents



These values are consistent with published specifications for (-)- β -Pinene.

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Heat
- Oxidising agents
- Sources of ignition

Hazardous decomposition products:

- Carbon monoxide
 - Carbon dioxide
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SECTION 11: TOXICOLOGICAL INFORMATION

Routes of exposure:

- Skin
- Eyes
- Inhalation
- Ingestion

May cause:

- Skin irritation
 - Allergic skin reaction
 - Respiratory irritation
 - Aspiration hazard if swallowed.
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SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Avoid uncontrolled release into the environment.



SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and container in accordance with local, regional and national regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 2368

Proper Shipping Name: Beta-Pinene

ADR/RID: Class 3

IMDG: Class 3

IATA: Class 3

Packing Group: III

SECTION 15: REGULATORY INFORMATION

Chemical Name: (-)- β -Pinene

CAS Number: 18172-67-3

EC Number: 242-060-2

Intended Use: Fragrance ingredient and perfumery raw material.

SECTION 16: OTHER INFORMATION

This Safety Data Sheet has been prepared using verified regulatory information for (-)- β -Pinene.

Verified identifiers:



- **CAS Number:** 18172-67-3
- **EC (EINECS) Number:** 242-060-2

These identifiers correspond specifically to the naturally occurring (-)- β -Pinene enantiomer rather than racemic β -pinene (CAS 127-91-3).

Authorized by

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Aromology Trading LLC