



# SAFETY DATA SHEET

[www.TerpScienceLabs.com](http://www.TerpScienceLabs.com)

## Section 1: Identification

### Product and Company Identification

**Product Name:** (-)- $\alpha$ -Bisabolol

**Chemical Name/Synonyms:** C<sub>15</sub>H<sub>26</sub>O

**CAS NO.:** 23089-26-1

**Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses :** Laboratory chemicals, Synthesis of substances

### Details of Supplier of Safety Data Sheet

**Company:** Terp Science Labs.

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Unit P-36

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USA

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**In emergency call 911.**

**For information about this SDS, use this department contact phone#:** 1 (323) 625-0228

## Section 2: Hazard(s) Identification

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Short-term (acute) aquatic hazard (Category 2), H401

Long-term (chronic) aquatic hazard (Category 2), H411

**Signal Word(s):** none

### Hazard Statements:

H411 Toxic to aquatic life with long lasting effects.



**Pictograms:**

### Precautionary Statements:

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal plant.

<b>Description of other hazards:</b> None			
<b>Section 3: Composition/ Information on Ingredients</b>			
<b>Substances</b> <b>Synonyms:</b> (-)-6-Methyl-2-(4-methyl-3-cyclohexen-1-yl)-5-hepten-2-ol Levomenol (-)-alpha-Bisabolol <b>Formula :</b> C15H26O <b>Molecular weight :</b> 222.37 g/mol <b>CAS-No. :</b> 23089-26-1 <b>EC-No. :</b> 208-205-9			
<b>Chemical Name</b>	<b>Classification</b>	<b>Concentration</b>	
Levomenol	Aquatic Acute 2; Aquatic Chronic 2; H401, H411	<= 100 %	
<b>Section 4: First-Aid Measures</b>			
<b>General advice</b> Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.			
<b>After skin contact:</b> Wash off with soap and plenty of water. Consult a physician			
<b>After eye contact:</b> Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			
<b>After inhalation:</b> If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.			
<b>After swallowing:</b> Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.			
<b>Section 5: Fire-Fighting Measures</b>			
<b>Extinguishing media</b>			
<b>Suitable extinguishing media</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
<b>Special hazards arising from the substance or mixture</b> Carbon oxides			
<b>Advice for firefighters</b> Wear self-contained breathing apparatus for firefighting if necessary.			
<b>Further information</b>			

Use water spray to cool unopened containers

### Section 6: Accidental Release Measures

#### Personal precautions:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### Measures for environmental protection:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Measures for cleaning/collecting:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

### Section 7: Handling and Storage

#### Handling:

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

#### Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Specific end use(s):

No other specific uses are stipulated

### Section 8: Exposure Controls/Personal Protection

#### Components with workplace control parameters

Remarks: Central Nervous System impairment

Upper Respiratory Tract irritation

Lung damage

Skin irritation

Adopted values or notations enclosed are those for which changes are proposed in the NIC

See Notice of Intended Changes (NIC) Not classifiable as a human carcinogen

Sensitizer

varies

#### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Form: clear, liquid Colour: light yellow
<b>Odour</b>	No data available
<b>Odour Threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	135.00 °C (275.00 °F) - closed cup
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapour pressure</b>	3 hPa (2 mmHg) at 20 °C (68 °F)
<b>Vapour density</b>	No data available
<b>Relative density</b>	0.929 g/cm <sup>3</sup>
<b>Water solubility</b>	No data available
<b>Partition coefficient: noctanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available

**Other safety information**

No data available

**Section 10: Stability and Reactivity**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions

**Possibility of hazardous reactions:** Vapours may form explosive mixture with air.

**Conditions to avoid:** Heat, flames and sparks

**Incompatible materials:** Strong oxidizing agents

**Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - No data available

**Section 11: Toxicological Information**

**Information on toxicological effects**

**Acute toxicity**

LD50 Oral - Rat - > 5,000 mg/kg

Remarks: (RTECS)

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

**Respiratory or skin sensitisation**

Sensitisation test: - Guinea pig

Result: negative

**Germ cell mutagenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Section 12: Ecological Information (non-mandatory)**

**Toxicity**

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - > 4.6 - 10 mg/l - 96 h

Remarks: (External MSDS)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1.3 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to bacteria EC10 - Pseudomonas putida - > 10,000 mg/l - 16 h

Remarks: (External MSDS)

**Persistence and degradability**

Biodegradability Result: - Readily biodegradable

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.  
Biological effects: Toxicity to bacteria Further information on ecology  
Discharge into the environment must be avoided.

**Section 13: Disposal Considerations (non-mandatory)**

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**Section 14: Transport Information (non-mandatory)**

**DOT (US)**

Not dangerous goods

**IMDG**

UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Levomenol)

Marine pollutant : yes

**IATA**

UN number: 3082 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Levomenol)

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

**Section 15: Regulatory Information (non-mandatory)**

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312**

Hazards Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Levomenol CAS-No. 23089-26-1

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**New Jersey Right To Know Components**

Levomenol CAS-No. 23089-26-1

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other Information**

Employers should only use this information only as a supplement to other information gathered by them , and should make judgement suitability of this information to ensure proper use and protect

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the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet , or in any combination with any other product or process, is the responsibility of the user.

**Preparation Information** Terp Science Labs

**SDS date of preparation/update:** 9/1/2019