

Section 1. Product and Company Identification

Product Name Alpha-Bisabolol

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Aquatic Acute 2 Hazardous to the aquatic environment - acute

Aquatic Chronic 2 Hazardous to the aquatic environment - chronic

GHS Label Elements

Pictograms:



Signal word: N/A

Hazard and precautionary statements

Hazard Statements

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P273 Avoid release to the environment.

Response

P391 Collect spillage.

Disposal

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified: No specific dangers known, if the regulations/notes for storage and handling are considered.



Labeling of special preparations (GHS):

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 13 – 15% oral

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 13 – 15% Inhalation – vapor

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 13 – 15% Inhalation – mist

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 100% dermal

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency Overview

Toxic to aquatic organisms.

Contact with the eyes or skin may cause mechanical irritation.

Avoid contact with the skin, eyes, and clothing.

Wear chemical resistant protective gloves.

Wear safety glasses with side-shields.

Ensure adequate ventilation.

Eye wash fountains and safety showers must be easily accessible.

Section 3. Composition / Information on Ingredients

Common Name Alpha-Bisabolol

COMPONENT	CAS NUMBER	CONCENTRATION
(R*,R*)-alpha.,4-Dimethyl-.alpha.-(4-methyl-3-pentenyl)cyclohex-3-ene-1-methanol	515-69-5	80.0 – 100.0%
Famiol	4602-84-0	7.0 – 15.0%
Bisabolol Isomer		1.0 – 5.0%

Section 4. First Aid Measures

Description of first-aid measures

General advice: Remove contaminated clothing. If adverse health effects develop seek medical attention.

Inhalation: Keep patient calm, remove to fresh air. Assist in breathing if necessary.

Skin Contact: Wash thoroughly with soap and water. If irritation develops, seek medical attention.

Eye Contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

Ingestion: Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Foam, dry powder

Special hazards arising from the substance or mixture

Hazards during firefighting: Evolution of fumes/fog.

Advice for firefighters

Protective equipment for firefighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information: Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow entrance into sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid contact with the skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions: Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Dispose of absorbed material in accordance with regulations.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with the skin, eyes, and clothing. No special measures necessary if stored and handled correctly.

Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stainless steel 1.4301 (V2), Stainless steel 1.4401, High density polyethylene (HDPE), Low density polyethylene (LDPE), aluminum, Stove-lacquer RDL 50, glass, tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container tightly closed and dry. Protect against heat.

Section 8. Exposure Controls / Personal Protection

Advice on system design: Provide local exhaust ventilation to control dusts/vapors.

Personal protective equipment

Respiratory protection: Wear a NIOSH-certified (or equivalent) self-contained breathing apparatus or full face supplied-air respirator with a loose fitting hood or full tight fitting face-piece and operated in pressure demand or continuous flow mode.

Hand protection: Wear chemical resistant protective gloves. Consult with glove manufacturer for testing data.

Eye protection: Safety glasses with side-shields.

Body protection: Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties

Form: Liquid

Odor: Faint odor, flowery, sweetish

Color: Clear, Colorless to slightly yellow

pH Value: 7.0

Boiling point: 287°C

Flash point: 148°C (DIN 51758)

Flammability: Not flammable

Flammability of Aerosol Products: Not applicable, the product does not form flammable aerosols.

Lower explosion limit: 0.8% (V) (146°C, 8.0 hPa)

Upper explosion limit: 3.8% (V) (180°C, 37.5 hPa)

Auto-ignition: approx. 250°C (DIN 51794)

Vapor pressure: approx. 1.6 hPa (approx. 110°C)

approx. 79.3 hPa (approx. 200°C)

Density: 0.92 g/cm³ (15°C)

Vapor density: Not applicable

Partitioning coefficient (n-Octanol/water): log Pow: 4.8 (Directive 92/69/EEC, A.8)

Self-ignition temperature: No data available.

Thermal decomposition: > 330°C

Viscosity, dynamic: 133 mPa*s (20°C)

Viscosity, kinematic: 144.5 mm²/s (20°C) (DIN 51562)

Solubility in water: Sparingly soluble

Solubility (qualitative): soluble solvent(s): organic solvents,

Molar mass: 222.37 g/mol

Evaporation rate: Not applicable

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section. No further information available.

Section 10. Stability and Reactivity

Reactivity: No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties: Based on its structural properties the product is not classified as oxidizing.

Chemical stability: The product is stable if stored and handled as prescribed/indicated.

Peroxides: The product does not contain peroxides.

Possibility of hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Avoid all sources of ignition: Heat, sparks, open flame.

Incompatible materials: No data available.

Decomposition Products

Hazardous Decomposition Products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal Decomposition: > 330°C

Section 11. Toxicological Information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Oral

Type of value: LD50

Species: Rat

Value: > 5,000 mg/kg

Inhalation

Species: Rat

Value: (IRT)

Exposure time: 7h

No mortality within the stated exposition time as shown in animal studies.

Irritation/Corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin

Species: Rabbit

Result: non-irritant

Method: OECD Guideline 404

Eye

Species: Rabbit

Result: Non-irritant

Method: OECD Guideline 405

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Result: Non-sensitizing. No sensitizing effect.

Aspiration Hazard: No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No known chronic effects.

Genetic toxicity

Assessment of mutagenicity: No mutagenic effect was found in various tests with microorganisms and mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Symptoms of Exposure: No significant symptoms are expected due to the non-classification of the product.

Section 12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity: Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (96 h) > 4.6 < 10 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)
The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates

EC50 (48 h) 1.3 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)
The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An eluate has been tested.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN 38412 Part 27 (draft) aerobic
bacterium/EC10 (16 h): > 10,000 mg/l
OECD Guideline 209 aerobic
activated sludge/EC20 (180 min): approx. 100 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H₂O): Readily biodegradable (according to OECD criteria).

Elimination information

70 - 80% BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Bioaccumulation potential: Accumulation in organisms is expected.

Mobility in soil

Assessment transport between environmental compartments

Adsorption to solid soil phase is possible.
The product has not been tested. The statement has been derived from the properties of the individual components.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.



Section 14. Transport Information

Land transport

USDOT

Hazard class: 9

Packing group: III

ID number: UN3082

Hazard label: 9, EHSM

Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Bisabolol)

Sea transport

IMDG

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Marine pollutant: YES

Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Bisabolol)

Air transport

IATA/ICAO

Hazard class: 9

Packing group: III

ID number: UN3082

Hazard label: 9, EHSM

Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Bisabolol)

Section 15. Regulatory Information

Federal Regulations

Registration status

Chemical TSCA, US released/listed

Cosmetic TSCA, US released/exempt

EPCRA 311/312 (Hazard categories): Not hazardous;

NFPA Hazard Codes

Health: 1

Flammability: 1

Reactivity: 0

Special: N/A



HMIS III Rating

Health: 1

Flammability: 1

Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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