

ALPHA BISABOLOL – SAFETY DATA SHEET
SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING
PRODUCT IDENTIFIER

Product name (as on label)	Alpha Bisabolol, <u>Synonyms:</u> Citrue Bisabolol, Levomenol
Uses	Ingredient in personal care formulations

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients Ltd
Address	626A Rosebank Road, Avondale, Auckland 1026 New Zealand
Telephone	+649 8135619
Website	www.pureingredients.co.nz
Email	compliance@pureingredients.co.nz

EMERGENCY TELEPHONE NUMBER

CHEMCALL	0800 CHEMCALL / 800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	NZ Poisons Centre 0800 POISON (0800 764 766)

SECTION 2 HAZARDS IDENTIFICATION
HSNO Hazard Classification: 9.1C

Hazardous Nature: This product is classified as hazardous under HSNO criteria.

Pictogram: N/A

Signal Word: None

HAZARD STATEMENT:	H412	Harmful to aquatic life with long lasting effects.
PREVENTION:	P273	Avoid release to the environment.
DISPOSAL:	P501	Dispose of contents, or container in accordance with local/regional/national/international regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS Number	Proportion (%v/v)
Alpha Bisabolol	23089-26-1	≥ 95
Bisabolol oxide	26184-88-3	≤ 5

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Inhalation	Move the victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if concerned.
Skin Contact	Wash with soap and water. Seek medical attention if any irritation occurs.
Eye Contact	Hold eyelids apart and flush the eye with running water for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed, do not induce vomiting. Give a glass of water to drink, if conscious. Never give anything by mouth to an unconscious person. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Seek medical attention.

First Aid Facilities: Provide eye baths and safety showers.

Medical Attention: Treat according to symptoms.

SECTION 5 FIREFIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media: Dry chemical, carbon dioxide or foam; water spray.

Hazards from combustion products: Carbon monoxide, carbon dioxide, and other organic complexes can be formed as a result of thermal decomposition. Fire can cause thick and black smoke.

Specific Hazards: Exposure to combustion or decomposition products can be harmful to health.

Precautions for fire fighters and special protective equipment: Full protective clothing and self-contained breathing apparatus

SAFETY DATA SHEET

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Controls: Use personal protective equipment when handling a spill.

Emergency Procedures: Prevent material from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment:

Major Land Spill:

- Eliminate sources of ignition
- Warn occupants of downwind areas of possible fire and explosion hazard
- Prevent product from entering sewers, watercourses, or low-lying areas
- Keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation
- Take measures to minimise the effect on ground water
- Contain any spilled liquid with sand or earth
- Recover liquid spills by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard
- Notify the port or relevant authority and keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Confine the spill if possible
- Remove the product from the surface by skimming or with suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations
- See “First Aid Measures” and “Stability and Reactivity”.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage: Store at ambient temperature (10-30°C) and protect against light.

Incompatible materials: Strong oxidising agents, strong acids, acid chlorides, acid anhydrides

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: The time weighted average (TWA) concentration, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week for this product is: Vegetable oil mist: 10 mg/m³. The short-term exposure limit (STEL), which is the maximum allowable exposure concentration at any time is: Mineral oil mist: No value established.

Biological limit values: Not available.

Engineering Controls: Ventilation. The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face or full-face filter mask to protect from overexposure by inhalation. Refer to AS/NZS 1715: Selection, Use and Maintenance of Respiratory Equipment and AS/NZS 1716: Respiratory Protective Devices for further details on the use of respiratory protective equipment.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Refer to product specs	Vapour Density @ 20°C	Not available
Odour	Refer to product specs	Autoignition Temperature	245 °C
Odour Threshold ppm	Not available	Decomposition Temperature	Not available
Melting Point/Range (Pour point)	< 20 °C	Viscosity @ 20°C cSt	Not available
Boiling Point/ Range	300.2 °C	pH	Not determined
Flash Point	143 °C	Partition Coefficient log Pow@25°C	5.5
Flammability	Not flammable	Percent Volatiles	Not available
Relative Density @ 20°C	0.93	Solubility with Water 20°C mg/L	22
Vapour Pressure @ 20°C kPa	0.015	Other Solubility	Soluble in ethanol
Explosive Limits (LEL – UEL) %	Not available	Other information	Not oxidising

SAFETY DATA SHEET

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable at room temperature and pressure
Conditions to Avoid	Sources of heat and ignition, open flames.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other organic complexes on incomplete burning or oxidation.
Hazardous Reaction	None identified
Hazardous Polymerisation	Not likely to occur

SECTION 11 TOXICOLOGICAL INFORMATIONAcute Effects:

Ingestion: No information available.
 Eye Contact: No information available.
 Skin Contact: No information available.
 Inhalation: No information available.

Chronic Effects: No chronic health data is available for this product.
 Other Health Effects Information: No information available

Toxicological Information

Oral / Dermal LD50: No data available

Inhalation LC50: No data available

Acute Toxicity (6.1A, 6.1B, 6.1C, 6.1D): Not classified as an acute toxicant.

Aspiration Hazard (6.1E): May be fatal if swallowed and enters airways.

Respiratory Irritation (6.1E): Not classified

Skin Corrosion/Irritation (8.2A, 8.2B, 8.2C, 6.3A): Not classified

Serious Eye damage/irritation (8.3A, 6.3A): Not classified

Respiratory or Skin Sensitisation (6.5A, 6.5B): Not classified.

Germ cell mutagenicity (6.6A, 6.6B): Not classified

Carcinogenicity (6.7A, 6.7B): Not classified

Reproductive Toxicity (6.8A, 6.8B, 6.8C): Not classified

Specific Organ Toxicity (Repeated and Single Exposure) (6.9A, 6.9B): Not classified

Narcotic Effects (6.9B): Not classified

SECTION 12 ECOLOGICAL INFORMATION**Ecotoxicity**Aquatic Toxicity

Fish toxicity, LC50 (96 hr): No data available.

Crustacean toxicity (Daphnia Magna), EC50 (48 hr): No data available

Green algae toxicity, EC50 (72 hr): No data available

Blue-green algae toxicity (Cyanobacteria), EC50 (72 hr): No data available.

Persistence/Degradability: The test substance is considered to be readily biodegradable (according to OECD criteria).

Mobility: No information available.

Bioaccumulative Potential: Not determined.

Other Information: Harmful to aquatic life with long lasting effects.

SECTION 13 DISPOSAL CONSIDERATION

Disposal	Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain harmful residue and/or fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry.
Special Precautions for Landfill or Incineration	This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

SAFETY DATA SHEET

SECTION 14 TRANSPORT INFORMATION

Transport	Road and Rail Transport		Marine Transport		Air Transport	
	UN No.	N/R	UN No.	N/R	UN No.	N/R
Proper Shipping Name	N/A	Proper Shipping Name	N/A	Proper Shipping Name	N/A	
DG Class	N/R	DG Class	N/R	DG Class	N/R	
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None	
Pack Group	N/R	Pack Group	N/R	Pack Group	N/R	
Hazchem	N/R	Hazchem	N/R	Hazchem	N/R	

Dangerous Goods Segregation | This product is classified as Dangerous Goods Class N/R, packing group N/R.

SECTION 15 REGULATORY INFORMATION

NZ HSR Approval Number	HSR002503
-------------------------------	-----------

Country/ Region: New Zealand

Inventory: NZIoC

Status: Listed in NZIoC

HSNO Approval: HSR002503: Additives, Process Chemicals and

Raw Materials (Subsidiary Hazard) Group Standard 2017

HSNO/HSWA Controls: Refer to the above Group Standard, Health and Safety at Work Act 2015, www.epa.govt.nz and www.worksafe.govt.nz for further information on controls

Certified Handler: Not required

Tracking: Not required

Restriction to workplace: Not applicable

Signage: Threshold quantity: 1,000 L

Fire extinguishers: Not required

Emergency Response Plan: Threshold quantity: 1,000 L

Secondary containment: Threshold quantity: 1,000 L

Agricultural Compounds and Veterinary Medicines Act 1997 (ACVM): Not applicable

Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable

Stockholm Convention: Not applicable

Rotterdam Convention: Not applicable

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Reference:

- Supplier Safety Data Sheets
- EPA CCID <https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/> (October 18)
- Workplace Exposure Standards and Biological Exposure Indices. 9th Edition, published by WorkSafe New Zealand November 2017. <https://worksafe.govt.nz/topic-and-industry/work-related-health/monitoring/exposure-standards-and-biological-exposure-indices> (October 18)
- US EPA Toxnet ChemIDPlus: <http://chem.sis.nlm.nih.gov/chemidplus> (October 18)
- OECD eChemPortal Substance Search <https://www.echemportal.org/echemportal/participant/page.action?pageID=9> (October 18)

Version: 01 Revision Date: 12/ 09/ 2019: PIL SA150 SDS.

Version: 02 Revision Date: 04/05/2020: PIL SDS Change of address - no changes to SDS.