

SAFETY DATA SHEET

GHS: According to 2015/830/EU

Code Number: EO100521

Version 4 Revised 17/01/2023

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

| | |
|------------------|---|
| Product Name | BERGAMOT ESSENTIAL OIL - NONPHOTOTOXIC ABP |
| Code Number | EO100521 - EOBERFCF |
| Alternative Name | INCI Name: Citrus Aurantium Bergamia Peel Oil |
| REACH Reg No | Not registered |

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

Concentrated material for manufacturing purposes only.

1.3 Details of the supplier of the safety data sheet

Pure Ingredients Ltd
626A Rosebank Road, Avondale
Auckland 1026
New Zealand

| | |
|------------------|----------------------------------|
| Telephone Number | +09 813 5619 |
| Email Address | compliance@pureingredients.co.nz |

1.4 Emergency Tel No 111 / NZ Poisons Centre **0800 POISON** (0800 764 766)
Emergency Response: 0800 CHEMCALL / 0800 243 622 (24hr)

Section 2. Hazard Identification

2.1 Classification of the substance or mixture

| | |
|---------------|---------------------------------------|
| FL 3*(3.1C) | Flammable liquid, category 3 |
| AH 1*(6.1E) | Aspiration hazard, category 1 |
| SCI 2*(6.3A) | Skin corrosion/irritation, category 2 |
| SS 1*(6.5B) | Skin sensitisation, category 1 |
| EDI 2A*(6.4A) | Eye damage/irritation, category 2A |
| EH A1*(9.1A) | Aquatic hazard, acute, category 1 |
| EH C1*(9.1A) | Aquatic hazard, chronic, category 1 |

2.2 Label elements

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GHS classification according to Regulation (EC) No 1272/2008

Hazard Pictograms



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 |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary Statements

- | | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing fumes. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves and eye protection |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTRE. |
| P331 | Do NOT induce vomiting. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice. |
| P337+P313 | If eye irritation persists: Get medical attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |

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P501 Dispose of contents and container in accordance to local regulations.

2.3 Other Hazards

Contains Citral, Geraniol, Limonene and Linalool which may produce an allergic reaction

No further information available at this time

Section 3. Composition / information on ingredients

Any percentage values listed here for hazardous components are for illustrative purposes only

3.1 Substances

Description BERGAMOT OIL NON PHOTOTOXIC
EC/EINECS 289-612-9
CAS Number 89957-91-5
USCAS Number 68648-33-9

Hazardous components

| ID Numbers | Chemical Name, Classification and Hazards | Conc (%) |
|--|--|----------|
| CAS 5989-27-5 EINECS 227-813-5 REACH | d-Limonene (p-Mentha-1,8-diene) FL 3;SCI 2;SS 1B;AH 1;EH A1,C1 H226,H304,H315,H317,H400,H410 | 48.2700 |
| CAS 115-95-7 EINECS 204-116-4 REACH | Linalyl acetate FL 4;SCI 2;EDI 2A;EH A3 H227,H315,H319,H402 | 24.3500 |
| CAS 78-70-6 EINECS 201-134-4 REACH | Linalool FL 4;SS 1B H227,H317 | 13.3600 |
| CAS 127-91-3 EINECS 204-872-5 REACH | beta-Pinene FL 3;ATO 5(3700);AH 1;SCI 2;SS 1B;EH A1,C1 H226,H303,H304,H315,H317,H400,H410 | 7.7100 |
| CAS 99-85-4 EINECS 202-794-6 REACH | gamma-Terpinene (p-Mentha-1,4-diene) FL 3;ATO 5(3850);SCI 3;AH 1 H226,H303,H304,H316 | 5.7000 |
| CAS 80-56-8 EINECS 201-291-9 REACH | Pinenes FL 3;ATO 4;AH 1;SCI 2;SS 1;EH A1,C1 H226,H302,H304,H315,H317,H400,H410 | 1.2500 |
| CAS 123-35-3 EINECS 204-622-5 REACH | beta-Myrcene FL 3;AH 1;SCI 2;EDI 2A H226,H304,H315,H319 | 1.2200 |

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| | | |
|---|--|--------|
| CAS 3387-41-5 EINECS 222-212-4 REACH | Thuj-4(10)-ene ATO 4(2000) H302 | 1.1600 |
| CAS 99-87-6 EINECS 202-796-7 REACH | para-Cymene FL 3;ATO 5(4750);SCI 3;AH 1;EH A2,C2 H226,H303,H304,H316,H401,H411 | 0.3600 |
| CAS 105-87-3 EINECS 203-341-5 REACH | Geranyl acetate SCI 2;SS 1;EH C3 H315,H317,H412 | 0.3000 |
| CAS 141-12-8 EINECS 205-459-2 REACH | Neryl acetate SCI 2;SS 1;EH C3 H315,H317,H412 | 0.2800 |
| CAS 141-27-5 EINECS 205-476-5 REACH | Geranial (3,7-Dimethyl-2,6-octadienal) SCI 2;SS 1B;EDI 2A H315,H317,H319 | 0.2500 |
| CAS 2867-05-2 EINECS 220-686-7 REACH | alpha-thujene (5-isopropyl-2-methylbicyclo[3.1.0]hex-2-ene) FL 3;ATO 4;AH 1;SCI 2;SS 1;EH C2 H226,H302,H304,H315,H317,H411 | 0.2400 |
| CAS 586-62-9 EINECS 209-578-0 REACH | Terpinolene FL 4;ATO 5(3850);AH 1;SCI 3;SS 1B;EH A1,C1(M factor 1) H227,H303,H304,H316,H317,H400,H410 | 0.2200 |
| CAS 87-44-5 EINECS 201-746-1 REACH | Caryophyllene AH 1;SS 1B H304,H317 | 0.1900 |
| CAS 106-26-3 EINECS 203-379-2 REACH | Neral SCI 2;SS 1;EDI 2A H315,H317,H319 | 0.1800 |
| CAS 495-61-4 EINECS 207-805-8 REACH | beta-Bisabolene (Bisabolene) AH 1;SCI 2;SS 1B H304,H315,H317 | 0.1200 |
| CAS 99-86-5 EINECS 202-795-1 REACH | Terpinenes (para-Mentha-1,4-diene) FL 3;ATO 4(1680);SCI 3;AH 1;EH A2,C2 H226,H302,H304,H316,H401,H411 | 0.1200 |
| CAS 13474-59-4 EINECS 603-860-0 REACH | trans-alpha-Bergamotene AH 1 H304 | 0.1100 |
| CAS 3338-55-4 EINECS 222-081-3 REACH | Ocimenes (cis-beta-Ocimene) FL 3;AH 1;SCI 3 H226,H304,H316 | 0.1000 |

Refer to section 16 for the wording of listed classification and hazard statement codes

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Section 4. First Aid measures

Take phrases in section 2 into account

4.1 Description of first aid measures

After inhalation

If fumes or combustion products are inhaled, remove to fresh uncontaminated air, lay patient on back until breathing returns to normal.

After skin contact

Irritating, may cause an allergic reaction. Remove contaminated clothing and wash thoroughly with soap and water. Seek medical advice if irritation persists or there are any signs of tissue damage.

After eye contact

Highly irritating. Flush eyes with plenty of water for 15 minutes including under eyelid. Seek medical advice if irritation persists. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

After ingestion

May be fatal if enters airways. Do NOT induce vomiting. Position to avoid aspiration should vomiting occur. Wash mouth with plenty of water and obtain medical advice immediately. Never give anything by the mouth to an unconscious patient.

4.2 Most important symptoms and effects, both acute and delayed

Take phrases in sections 2 and 11 into account. No further information available at this time.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing Media

Carbon dioxide, foam or dry powder. DO NOT USE A DIRECT WATER JET.

5.2 Special hazards arising from the substance or mixture

May produce Carbon dioxide and unidentified organic compounds.

5.3 Advice for fire-fighters

Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin exposure. Avoid inhalation of dusts/vapours. Keep containers cool with water spray. Do not use direct water jet on burning material. Do not allow spillage of fire to enter drains or watercourses.

HazChem Code 3Y

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Avoid inhalation, skin and eye contact. Ensure proper ventilation. Evacuate all unnecessary personnel. If possible, contain the spill.

6.2 Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water.

6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbent material such as earth or vermiculite; transfer used material to a suitable waste container and dispose in accordance with regulations. If large quantities of this material enter the waterways, contact the EPA or your local Waste Management Group.

6.4 Reference to other sections

Refer to information in Sections 7, 8 and 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes. Wear protective clothing and use safety glasses. Keep in original container or an alternative made from a compatible material.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers away from ignition sources and in a cool place. Avoid contact with incompatible materials that support combustion, such as strong oxidising agents.

7.3 Specific end use(s)

No further information available.

Section 8. Exposure controls / personal protection

8.1 Control Parameters

No exposure standards have been established for this material by Work safe Australia. However, as a matter of course avoid repeated or prolonged contact with the skin. Keep out of eyes. Do not ingest. Use with good ventilation, do not breathe dusts/vapours. Sensitive individuals may develop an allergic response.

8.2 Exposure controls

Engineering controls

Natural ventilation should be sufficient, however where dusts/vapours are generated the use of a grounded mechanical exhaust ventilation system is recommended.

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Individual protection measures

Refer to Section 5 for specific fire/chemical personal protective equipment advice.
Always wash routinely before breaks, meals and at the end of the work period.

Eye/face protection

Use splash-proof safety glasses and face shield where splashing is possible.

Hand protection

Wear chemically resistant disposable gloves.

Other skin protection

Wear overalls. Depending on conditions in the workplace, additional body protection should be considered. Always wash routinely before breaks, meals and at the end of the work period.

Respiratory protection

Not generally required. Use inhalation protection in poorly ventilated areas.

Thermal hazards

No information.

Environmental exposure controls

Emissions from ventilation and process equipment should be checked to ensure compliance with environmental protection legislation.

National Exposure Standards

No exposure standards have been established for this material by Worksafe Australia.

Biological Limit Values

No biological limit allocated.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|------------------------|---------------------------------|
| FLASH POINT (°C) | 56°C |
| APPEARANCE | Mobile liquid |
| COLOUR | Colourless |
| ODOUR | Pleasant, fresh, fruity, citrus |
| ODOUR THRESHOLD | Not available |
| pH @20 DEG C | Not available |
| MELTING/FREEZING POINT | Not available |

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| | |
|---------------------------------|--------------------|
| INITIAL BOILING POINT AND RANGE | 180°C |
| EVAPORATION RATE | Not available |
| FLAMMABILITY (SOLID/GAS) | Not available |
| UPPER/LOWER FLAMMABILITY LIMITS | Not available |
| VAPOUR PRESSURE | Not available |
| VAPOUR DENSITY | Not available |
| SPECIFIC GRAVITY @ 20°C | 0.858 to 0.884 |
| SOLUBILITIES | Insoluble in water |
| PARTITION COEFF N-OCTANAL/WATER | Not available |
| AUTO-IGNITION TEMPERATURE | Not available |
| DECOMPOSITION TEMPERATURE | Not available |
| VISCOSITY @ 20 DEG C | Not available |
| EXPLOSIVE PROPERTIES | Not available |
| OXIDISING PROPERTIES | Not available |

9.2 Other information

No further information available.

Section 10. Stability and reactivity

10.1 Reactivity

No data.

10.2 Chemical Stability

Stable under the recommended storage conditions (see section 7).

10.3 Possibility of hazardous reactions

No hazardous reactions if stored under suitable storage conditions.

10.4 Conditions to avoid

Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to air.

10.5 Incompatible materials

Keep away from oxidising agents and from highly alkaline or acidic material.

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10.6 Hazardous decomposition products

During combustion may form carbon monoxide, carbon dioxide and unidentified organic compounds.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not Applicable

Not classified based on available data.

LD50 Oral (rat) - >10,000 mg/kg

LD50 Dermal (rabbit) - >20,000 mg/kg

Skin corrosion / irritation

Causes skin irritation.

Serious eye damage / irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

No data

Carcinogenicity

No data

Reproductive toxicity

No data

STO-single exposure

No data

STO-repeated exposure

No data

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

No data

Symptoms related to the physical, chemical and toxicological characteristics

No data

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data

Interactive effects

No data

Other information

No data

Section 12. Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects. Avoid contaminating waterways.

Contains D-Limonene (5989-27-5):

LC50 (96 h) - Pimephales promelas (fathead minnow) – 0.72 mg/L

EC50 (48 h) - Daphnia magna – 0.36 mg/L

EC50 (72 h) - Raphidocelis subcapitata – 0.32 mg/L

12.2 Persistence and degradability

Readily biodegradable in water.

12.3 Bioaccumulative potential

BCF of lead constituent (D-Limonene): 683 L/kg ww

12.4 Mobility in soil

Avoid soil, surface water and water-bearing stratum contamination.

12.5 Results of PBT and vPvB assessment

No data

12.6 Other adverse effects

See sections 6, 7, 13 and 15.

Section 13. Disposal considerations

Please refer to the information in section 8 (Exposure controls and personal protection)

13.1 Waste treatment methods

Dispose in accordance with the law and local regulations. Treat as trade effluent.

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Please refer to the information in section 8 (Exposure controls and personal protection)

Section 14. Transport information

14.1 UN number

| | |
|------|------|
| ADR | 1197 |
| IATA | 1197 |
| IMDG | 1197 |

14.2 UN proper shipping name

| | |
|------|--|
| ADR | EXTRACTS, LIQUID, FOR FLAVOUR OR AROMA |
| IATA | EXTRACTS, LIQUID, FOR FLAVOUR OR AROMA |
| IMDG | EXTRACTS, LIQUID, FOR FLAVOUR OR AROMA |

14.3 Transport hazard class(es)

| | |
|------|---|
| ADR | 3 |
| IATA | 3 |
| IMDG | 3 |

14.4 Packing group

| | |
|------|-----|
| ADR | III |
| IATA | III |
| IMDG | III |

Tunnel Code (D/E)

14.5 Environmental Hazards

Dangerous for the environment. Marine pollutant.

14.6 Special precautions for user

Maritime Transport (International Maritime Dangerous Goods Code (IMDG Code)):

EmS: F-E, S-D

Marine Pollutant: Yes

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Road and Rail Transport (Australian Dangerous Goods Code (ADG Code)):

HazChem Code 3Y

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison Schedule (SUSMP): Not applicable

HS Tariff Code: 3301.19.00

HSNO Approval Number: HSR002576

This material is listed on the Australian Inventory of Industrial Chemicals (AIIC).

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

Section 16. Other information

Full list of precautionary phrases

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing fumes. |
| P264 | Wash hands thoroughly after handling |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves and eye protection |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTRE. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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. |
| P331 | Do NOT induce vomiting. |

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| | |
|-----------|---|
| P333+P313 | If skin irritation or rash occurs: Get medical advice. |
| P337+P313 | If eye irritation persists: Get medical attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents and container in accordance to local regulations. |

Wording of any hazard classes listed in section 3

| | |
|--------|---------------------------------------|
| FL 3 | Flammable liquid, category 3 |
| FL 4 | Flammable liquid, category 4 |
| ATO 4 | Acute toxicity, oral, category 4 |
| ATO 5 | Acute toxicity, oral, category 5 |
| AH 1 | Aspiration hazard, category 1 |
| SCI 2 | Skin corrosion/irritation, category 2 |
| SCI 3 | Skin corrosion/irritation, category 3 |
| SS 1 | Skin sensitisation, category 1 |
| SS 1B | Skin sensitisation, category 1B |
| EDI 2A | Eye damage/irritation, category 2A |
| EH A1 | Aquatic hazard, acute, category 1 |
| EH A2 | Aquatic hazard, acute, category 2 |
| EH A3 | Aquatic hazard, acute, category 3 |
| EH C1 | Aquatic hazard, chronic, category 1 |
| EH C2 | Aquatic hazard, chronic, category 2 |
| EH C3 | Aquatic hazard, chronic, category 3 |

Wording of any hazard statements listed in section 3

| | |
|------|--|
| H226 | Flammable liquid and vapour |
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H303 | May be harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H316 | Causes mild skin irritation |

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| | |
|------|--|
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

References and further information

Key:

N/A = Not applicable

SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons

AIIC = Australian Inventory of Industrial Chemicals

AICIS = Australian Industrial Chemicals Introduction Scheme

Version 1: GHS format, BV 03/07/2017

Version 2: Hazard update, BV 22/01/2020

Version 3: Minor changes, RB 13/01/2023

Version 4: UN code change, RB 17/01/2023

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.