



BRINGING AUSTRALIA CLOSER





- 🌿 EUROPEAN & ASIAN INVESTMENT
- 🌿 EXPERIENCED LOCAL PARTNER
- 🌿 TEA TREE OIL PLANTATION & DISTILLERY
- 🌿 EVOLUTION OF PIONEERING TEA TREE FARM
- 🌿 *'AUSTRALIAN PLANTATIONS LIMITED'* EST. 1983
- 🌿 FURTHER PLANTATIONS IN THE PIPELINE PLUS DISTILLERY & IRRIGATION UPGRADES



- 🌿 PRODUCING & DISTILLING TEA TREE OIL ON SITE
- 🌿 CONTRACT HARVESTING OTHER FARMS
- 🌿 COMBINED PRODUCTION AND COMMERCIAL
- 🌿 ACTIVITIES OFFER +100MT TEA TREE OIL P/A

## GREEN FAMILY



**EUCALYPTUS HORISTES**

*Eucalyptus kochii*

### NOTES

Horistes is a mallee type. Also known as Eucalyptus borealis, it is a sub species of Eucalyptus kochii. From plantation stock this is one true Australian eucalypt that is fully sustainable. It has very high is cineol where levels are consistently near 90-95%. It has great medicinal properties and is effective in oral care.

### PERFUMERY

Fresh  
Zingy  
Eucalyptol  
Camphor

### AROMATHERAPY

Mouthwash & cough supressents  
Insecticide  
Respiratory issues  
Antiseptic and antimicrobial

Pg#7-9



**KUNZEA AMBIGUA**

*Kunzea ambigua*

Native to Tasmania, Kunzea is derived by steam distillation from the terminal branches and is a member of the Myrtaceae family. The plant goes by the names "White Cloud" or "White Kunzea". Recent investments have seen production increase and with it better econoies of scale introduced, opening it up to wider markets.

Myrtle and medicinal top notes  
Herbaceous, pine  
Fresh & green  
Campherous

Pain relief from arthritis, muscular aches and pains  
Help release symptoms of colds and flu as well as easing anxiety

Pg#10-12



**MANUKA**

*Leptospermum scoparium*

Oil is extracted from the aerial parts of the plant by steam distillation. East Cape Manuka is known for its many unique properties and is grown and harvested wild. Also known as Red Manuka or Kahikatoa It has exceptional scientific pharmacological efficacy with unique and superior antimicrobial properties.

Earthy & green  
Medicinal  
Effective as part of natural fragrance in  
pharmalogical and cosmetic products

Very strong antibacterial, antiviral and anti-parasitic  
properties  
Antimicrobial  
High in  $\beta$ -triketones

Pg#13-15

## GREEN FAMILY



### TEA TREE

#### *Melaleuca alternifolia*

#### NOTES

Australia's legendary essential oil and for good reason. This traditional oil has been well used for centuries and commercialised in the early 1980's as a super oil. Known locally as a 'first aid' oil, this oil offers a vast amount to any topical, cosmetic and pharmaceutical product. It has a unique odour and represents good value in today's markets.

#### PERFUMERY

Powerful, fresh  
Warming, spicy-earthly  
Medicinal  
Green  
Zingy

#### AROMATHERAPY

So many including; anti-fungal, anti-microbial and antiseptic. Good for treating cold & flu, dandruff, gingivitis, psoriasis, herpes and more!

Pg#16-18



### ROSALINA

#### *Melaleuca ericifolia*

Also known as Lavender Tea Tree, Rosalina is part of the Australian Melaleuca family. Originally referred to as 'Swap Paperbark', Melaleuca ericifolia is a small tree growing to 7-9 metres with narrow leaves. This oil offers both the linalool and 1,8 cineole components that highlight those respective oils. Typically, linalool is found at concentration levels of 45% and 1,8 cineole around 20%.

Uplifting lemon infused in fresh pine floating on the back of a buttery wind

Anti-bacterial  
Anti-viral  
Immune Stimulant  
Sedative  
Decongestant  
Ease Insomnia  
Calms anxiety

Pg#19-21



## WOODY FAMILY



### BUDDAWOOD

*Eremophila mitchellii*

#### NOTES

Eremophila Mitchellii is an Australian native tree commonly found from Northern South Australia to North West Queensland. It is also known as "false sandalwood". Produced by steam distillation over 7-10 days, this project is fully government supported and therefore sustainable

#### PERFUMERY

Woody base note  
Natural fixative properties  
Popular across Middle-East  
Smooth, Sweet, Oak notes

#### AROMATHERAPY

Cut & sores healing properties  
Relieve muscular pains  
Centre emotions  
Enhance calm and peace

Pg#22-24



### CYPRESS BLUE

*Callitris intratropica*

Blue Cypress is a tree native to Australia growing in the Northern Territory. The tree grows freely and is wild-harvested to produce the oil, under a well-managed sustainability scheme imposed by the state government. Produced by steam distillation over 5 days. Blue in colour which comes from the bark.

Alternative to vetiver  
Excellent for Men's fragrances  
Works well in cosmetics  
Floral, Woody, Tonka, Earthy notes

Anti-viral  
Anti-inflammatory  
Calming  
Soothing

Pg#25-27



### SANDALWOOD WA

*Santalum spicatum*

'Australian' sandalwood is a desert type of tree native to the middle and southern parts of Western Australia. Since the late 1990s many long-term plantations have been established covering around 15,000 hectares growing at a further 1,500 hectares per year. Harvested at 15-20 years and produced by a 7 day steam distillation.

Woody base note  
Natural fixative properties  
Plantation sustainability  
Smooth, Sweet, Oak notes

Anti-viral and antiseptic  
Anti-inflammatory  
Relaxing & calming  
Anti-ageing

Pg#28-30

## WOODY FAMILY



**SANDALWOOD QLD**

*Santalum lanceolatum*

### NOTES

A new oil to market from the Queensland sandalwood species that has traditionally been used for incense and carving. It has a light woody odour with a slight citrus undertone and has a lovely golden colour. Supplies are in abundance and current licenses already permit harvesting to allow for upwards of 5MT of oil production.

### PERFUMERY

Light woody notes  
Natural fixative properties  
Unisex fragrance base  
Smooth, Sweet, Citrus notes

### AROMATHERAPY

Anti-viral and antiseptic  
Natural aphrodisiac  
Anti-spasmodic  
Anti-ageing

Pg#31-33



**SANDALWOOD INDIAN**

*Santalum album*

Sandalwood Oil Indian (*Santalum album*) is well known in the industry as it has been used in fragrances for generations. However it is more commonly known as being from India but after years of deforestation and no replanting, India as a source is no longer viable. Plantations have been established now for 20 years and finally we are seeing small volumes of oil emerge from this species in Australia.

Classic oriental woody note, milky, soft, sturdy, rich, with a green top note and a satisfying lingering scent.

Anti-viral  
Antiseptic  
Astringent  
Natural Aphrodisiac  
Anti-Inflammatory  
Anti-ageing  
Antispasmodic

Pg#34-36



**SANDALWOOD NUT**

*Santalum spicatum*

Derived from the sandalwood tree, *Santalum spicatum* (West Australian Sandalwood), Sandalwood nut oil is different from its wood oil. It is a terminal harvest product, the former can be harvested from its nuts throughout the tree's lifetime, starting at around 5 years of age. Its composition is also different primarily due to the presence of a unique component – the ximenynic acid (XA) at high concentration.

Mild, woody base notes of green balsam beneath subtle, whimsical top notes of nutty goodness.

Anti-Inflammatory  
Emmollient  
Cosmetic Ingredient  
Anti-ageing  
Soothing agent

Pg#37-39

## SPICY FAMILY



### TASMANIA LANCEOLATA ABSOLUTE

*Tasmanian Lanceolata*

#### NOTES

Tasmanian Native Pepper (*Tasmania lanceolata*) is a perennial shrub native to Tasmania. Large natural stands are found in the high, cool, moist areas of the State. These areas provide a reliable and sustainable source of leaf material for extraction.

#### PERFUMERY

Herbal  
Green  
Slightly spicy  
Warm and woody

#### AROMATHERAPY

Therapeutic  
Anti-inflammatory

Pg#43-45



### TASMANIA LANCEOLATA CONCRETE

*Tasmanian Lanceolata*

Tasmanian Native Pepper (*Tasmania lanceolata*) is a perennial shrub native to Tasmania. Large natural stands are found in the high, cool, moist areas of the State. These areas provide a reliable and sustainable source of leaf material for extraction.

Herbal  
Green  
Slightly spicy  
Warm and woody

Therapeutic  
Anti-inflammatory

Pg#46-48



### TASMANIA LANCEOLATA EXTRACT

*Tasmanian Lanceolata*

Tasmanian Native Pepper (*Tasmania lanceolata*) is a perennial shrub native to Tasmania. Large natural stands are found in the high, cool, moist areas of the State. These areas provide a reliable and sustainable source of leaf material for extraction.

Herbal  
Green  
Slightly spicy  
Warm and woody

Therapeutic  
Anti-inflammatory

Pg#49-51



## HERBAL FAMILY



### PEPPERMINT OIL TASMANIA

*Mentha Piperita*

#### NOTES

Peppermint Oil, *Mentha piperita*, was one of the first essential oils produced in Tasmania in the late 1970's, using the prized Black Mitcham cultivar, renowned for its rich, complex flavour and aroma.

#### PERFUMERY

Minty  
Cool  
Fresh

#### AROMATHERAPY

Therapeutic  
Anti-inflammatory

Pg#52-54



### FENNEL OIL SWEET

*Foeniculum vulgare*

Fennel is well suited to the Tasmanian climate; growing strongly in spring and accumulating oil under the mild, sunny days of summer and early autumn. Its is used in a wide range of food flavouring and beverage products. Fennel oil produced with a range of compositions, and can tailor a product to suit your needs.

Sweet  
Earthy aroma  
Aniseed

Anti-Inflammatory  
Emmolient  
Cosmetic Ingredient  
Anti-ageing  
Soothing agent

Pg#55-57



### FENNEL OIL 70% FENCHONE

*Foeniculum vulgare*

This bitter tasting product is produced by rectification from whole oil, and is perfect for a range of applications in food, oral care and perfumery.

Aniseed aroma  
Bitter Fenchone

Antiseptic  
Anti-inflammatory

Pg#58-60





## HERBAL FAMILY

### PARSLEY HERB OIL

*Petroselinum crispum*

#### NOTES

Tasmanian Parsley Herb Oil - *Petroselinum crispum* - or Triple Curled Parsley. This essential oil is sustainably grown and harvested on farms in the cool pristine environment of North-Eastern Tasmania. The parsley leaves are steam distilled, producing an herbaceous odour of 'newly cut grass'. Pale yellow in colour.

#### PERFUMERY

Clean Complex notes  
Freshcut Parsley

#### AROMATHERAPY

Anti-inflammatory  
Astringent properties

Pg#61-63



## FLORAL FAMILY

### BORONIA ABSOLUTE TASMANIA

*Boronia megastigma*

Boronia absolute is produced from the flowers of Brown Boronia (*Boronia megastigma*); an Australian native shrub with intensely rich, fragrant flowers. Plantation production of this plant was pioneered here in Tasmania.

Intense  
Rich  
Flowery  
Woody

Uplifting  
Refreshing  
Energising

Pg#64-66



### LAVENDER OIL TASMANIA

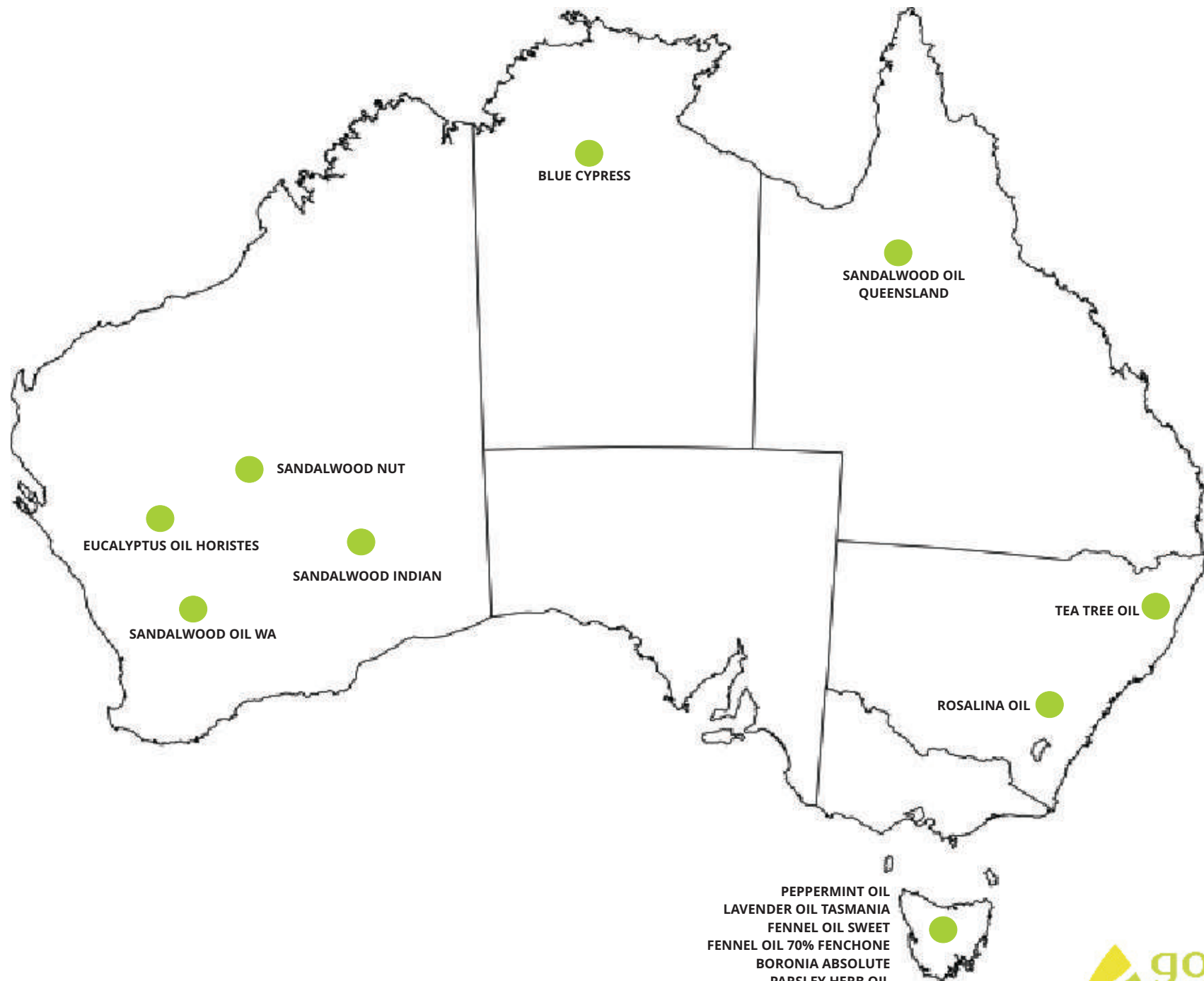
*Lavandula angustifolia*

Similar to the traditional growing regions of southern France, with its long summer day length and cool nights, Tasmania's maritime climate and soils are well suited to growing one of the most valued, universally used and prescribed essential oils, Lavender.

Fresh  
Sweet  
Floral-herbaceous  
Slightly woody

Antiseptic  
Astringent  
Natural Aphrodisiac  
Anti-Inflammatory  
Anti-ageing  
Antispasmodic

Pg#67-69





### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 97926-42-6   |
| Product Description | : Clear to pale yellow liquid having characteristic odour. |
| Origin              | : Obtained by the steam distillation from leaf/twigs       |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Clear to pale yellow liquid                              |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 48°C   |
| Refractive Index            | : 1.445 - 1.465 @20°C                                      |
| Relative Density            | : 0.899 - 0.919 @20°C                                      |
| Optical Rotation            | : -3° to +5°   |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Legislation                 | : Natural  |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Perfumes & Fragrances                                    |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

#### PACKING & STORAGE :

Store at ambient temperature (10-15°), dry and well-ventullated area, away from heat source and protected from light. Store in tightly sealed original containers.

#### Notes

Horistes is a mallee type. Also known as Eucalyptus borealis, it is a sub species of Eucalyptus kochii. From plantation stock this is one true Australian eucalypt that is fully sustainable. It has very high is cineol where levels are consistently near 90-95%. It has great medicinal properties and is effective in oral care.

#### PERFUMERY

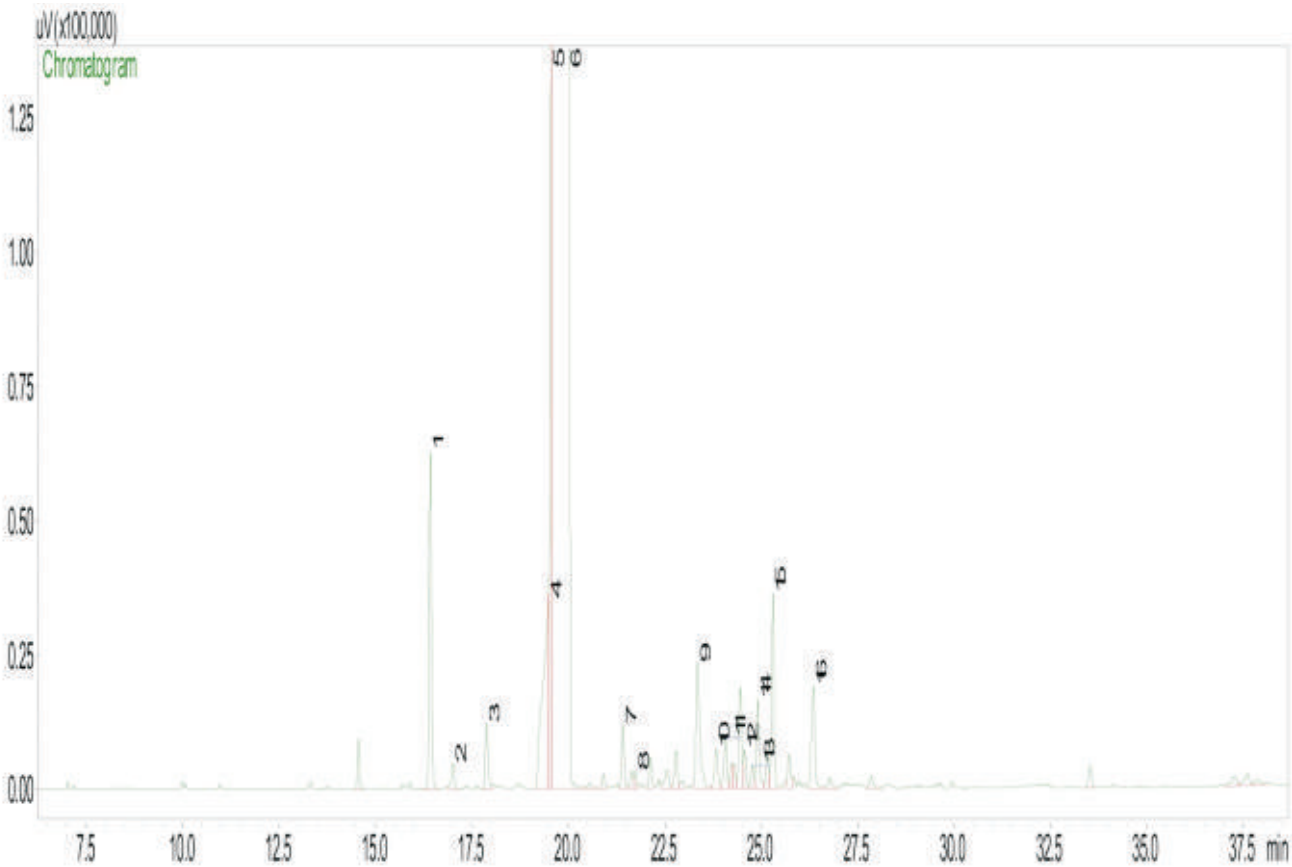
Fresh  
Zingy  
Eucalyptol  
Camphor

#### AROMATHERAPY

Mouthwash & cough suppresents  
Incesticide  
Respiratory issues  
Antiseptic and antimicrobial



Typical GC Profile



| Peak # | Compound Name               | Area% | ACCEPTABLE RANGE |
|--------|-----------------------------|-------|------------------|
| 1      | ALPHA-PINENE                | 0.38  | 0.3 – 1.0%       |
| 2      | CAMPHENE                    | 0.04  |                  |
| 3      | BETA-PINENE                 | 0.09  |                  |
| 4      | PARA-CYMENE                 | 1.49  | 0.90 – 1.90%     |
| 5      | LIMONENE                    | 0.26  |                  |
| 6      | 1,8-CINEOL                  | 94.75 | 92.5 – 96.5%     |
| 7      | ALPHA-PARA-DIMETHYL STYRENE | 0.08  |                  |
| 8      | LINALOOL                    | 0.05  |                  |
| 9      | T-PINOCARVEOL               | 0.24  |                  |
| 10     | PINOCARVONE                 | 0.06  |                  |
| 11     | DELTA-TERPINEOL             | 0.14  |                  |
| 12     | TERPINEN-4-OL               | 0.26  |                  |
| 13     | ALPHA-TERPINEOL             | 0.17  |                  |
| 14     | MYRTENAL                    | 0.15  |                  |
| 15     | VERBENONE                   | 0.38  |                  |
| 16     | CARVONE                     | 0.29  |                  |

Notes

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### Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | -                     |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lylal)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

**Disclaimer:** Golden Grove Naturals cannot be held liable for any loss or damage suffered by any person as a result of following of relying on the information disclosed. The use of this information is the responsibility of the user. When a batch is specified, the information disclosed is for this particular batch only and representative of products of the same code and description.

### IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|  |  |
|--|--|
| CAS #                                      | : 97553-36-1   |
| EINECS #                                   | : 307-193-3  |
| Product Description<br>herbal, vegetal and | : Clear watery liquid with odour reminiscent of a blend of<br>spicy.             |
| Origin<br>branches of                      | : Obtained by the steam distillation from the leaves & lateral<br>Kunzea ambigua |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Clear watery mobile liquid                               |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 40°C   |
| Refractive Index            | : 1.460-1.482 @20°C  |
| Relative Density            | : 0.900-0.930 @20°C  |
| Optical Rotation            | : 0° to 50°  |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Legislation                 | : Natural  |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Cosmetics & Aromatherapy                                 |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

**PACKING & STORAGE :** Store at ambient temperature, dry and well-ventullated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

#### Notes

Native to Tasmania, Kunzea is derived by steam distillation from the terminal branches and is a member of the Myrtaceae family.

The plant goes by the names "White Cloud" or "White Kunzea". Recent investments have seen production increase and with it better econoies of scale introduced, opening it up to wider markets.

#### PERFUMERY

Myrtle and medicinal top notes

Herbaceous, pine

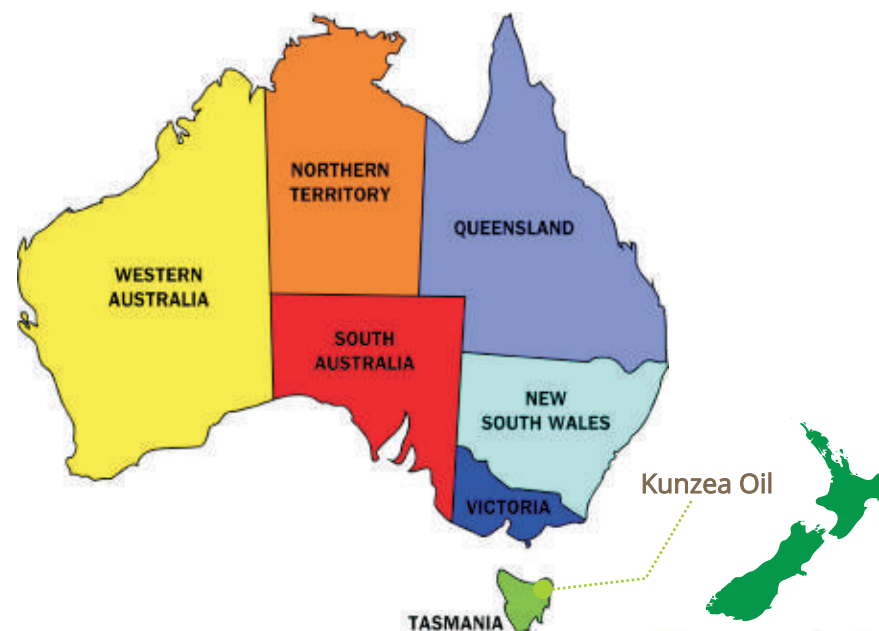
Fresh & green

Campherous

#### AROMATHERAPY

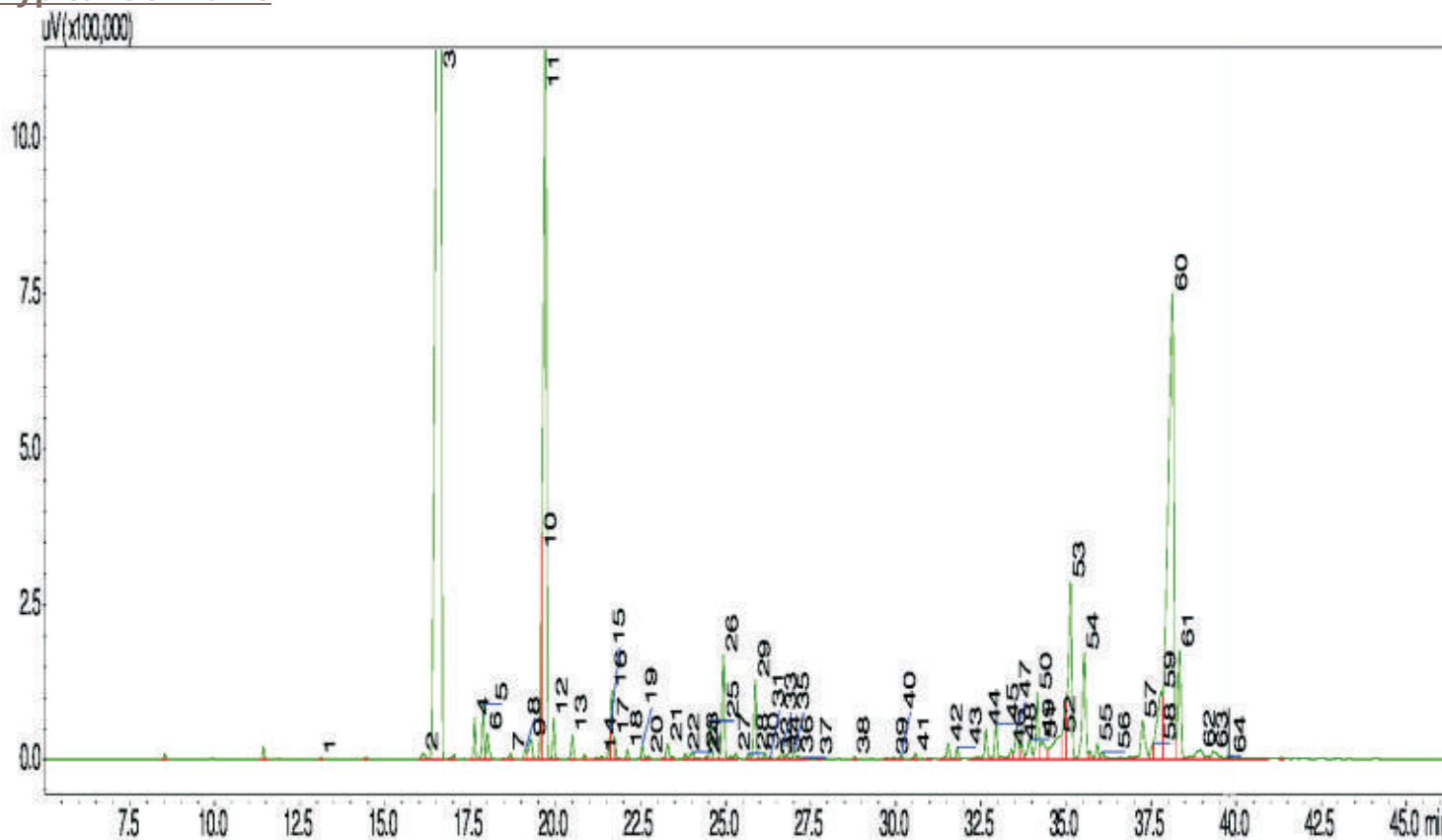
Pain relief from arthritis, muscular aches and pains

Help release symptoms of colds and flu as well as easing anxiety





### Typical GC Profile



| Peak # | Compound Name                    | Area% | ACCEPTABLE RANGE |
|--------|----------------------------------|-------|------------------|
| 1      | CIS-3-HEXENOL                    | 0.03  |                  |
| 2      | ALPHA-THUJENE                    | 0.13  |                  |
| 3      | ALPHA-PINENE                     | 41.38 | 35.0 – 50.0%     |
| 4      | SABINENE                         | 0.43  |                  |
| 5      | BETA-PINENE                      | 0.62  |                  |
| 6      | MYRCENE                          | 0.34  |                  |
| 7      | ALPHA-PHELLANDRENE               | 0.09  |                  |
| 8      | ALPHA-TERPINENE                  | 0.15  |                  |
| 9      | PARA-CYMENE                      | 0.41  |                  |
| 10     | LIMONENE                         | 1.27  |                  |
| 11     | 1,8-CINEOL                       | 13.28 | 9.0 – 16.0%      |
| 12     | TRANS-BETA-OCIMENE               | 0.48  |                  |
| 13     | GAMMA-TERPINENE                  | 0.3   |                  |
| 14     | ALPHA-PARA-DIMETHYLSTYRENE       | 0.05  |                  |
| 15     | ALPHA-TERPINOLENE                | 0.21  |                  |
| 16     | LINALOOL                         | 0.79  |                  |
| 17     | 3-METHYL BUTYL-2-METHYL BUTYRATE | 0.20  |                  |
| 18     | CIS-ROSE OXIDE                   | 0.11  |                  |
| 19     | ALPHA-CAMPHOLENOL                | 0.20  |                  |
| 20     | TRANS-ROSE OXIDE                 | 0.05  |                  |
| 21     | TRANS-PINOCARVEOL                | 0.26  |                  |
| 22     | PINOCARVONE                      | 0.08  |                  |
| 23     | DELTA-TERPINEOL                  | 0.15  |                  |
| 24     | PARA-CYMENE-8-OL                 | 0.04  |                  |
| 25     | TERPINEN-4-OL                    | 0.48  |                  |
| 26     | ALPHA-TRIPINEOL                  | 1.52  | 0.0 – 9.0%       |
| 27     | VEBENONE                         | 0.08  |                  |
| 28     | TRANS-CARVEOL                    | 0.07  |                  |
| 29     | CITRONELLOL                      | 1.06  |                  |
| 30     | NERAL                            | 0.09  |                  |
| 31     | 3-METHYL HEXYL BUTYRATE          | 0.03  |                  |
| 32     | ISOPENTYL HEXANOATE              | 0.03  |                  |
| 33     | GERANIOL                         | 0.15  |                  |
| 34     | LINALYL ACETATE                  | 0.08  |                  |
| 35     | GERANIAL                         | 0.11  |                  |
| 36     | TRANS-2-UNDECEN-1-OL             | 0.05  |                  |
| 37     | ALCOHOL C10                      | 0.03  |                  |
| 38     | METHYL GERANATE                  | 0.03  |                  |
| 39     | TERPINYL ACETATE                 | 0.04  |                  |
| 40     | ELUXENE                          | 0.05  |                  |
| 41     | ALPHA-CUBEBENE                   | 0.09  |                  |
| 42     | ALPHA-COPAENE                    | 0.26  |                  |
| 43     | BETA-ELEMENE                     | 0.16  |                  |
| 44     | ALPHA-GURJUNENE                  | 0.44  |                  |
| 45     | BETA-CARYOPHYLLENE               | 0.52  |                  |
| 46     | CYCLOSATIVENE                    | 0.16  |                  |
| 47     | AROMADENDRENE                    | 0.56  |                  |
| 48     | CUBEB-11-ENE                     | 0.25  |                  |
| 49     | ALLOAROMADENDRENE                | 0.44  |                  |
| 50     | EPI-BETA-CARYOPHYLLENE           | 1.07  |                  |
| 51     | GAMMA-ELEMENE                    | 0.50  |                  |
| 52     | BICYCLOGERMACRENE                | 1.16  | 0.5 – 1.50%      |
| 53     | VIRIDIFLORENE                    | 3.44  |                  |
| 54     | CIS-CALAMENENE                   | 2.01  |                  |
| 55     | CADINA-1,4-DIENE                 | 0.24  |                  |
| 56     | ALPHA-CALACORENE                 | 0.16  |                  |
| 57     | LEDOL                            | 0.89  |                  |
| 58     | SPATHULENOL                      | 0.22  |                  |
| 59     | GLOBULOL                         | 2.07  | 0.0 – 11.0%      |
| 60     | VIRIDIFLOROL                     | 15.50 | 9.0 – 18.0%      |
| 61     | EPIGLOBULOL                      | 1.82  |                  |
| 62     | TAU-CADINOL                      | 0.35  |                  |
| 63     | CADINA-4-EN-10-OL                | 0.29  |                  |
| 64     | CADALENE                         | 0.10  |                  |

### Notes

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol (101-85-9)                                  | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | Max 0.5%              |
| Citronellol (106-22-9)   | Max 2.0%              |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | Max 2.0%              |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | Max 0.3%              |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial) (80-54-6)                   | -                     |
| Linalool (78-70-6)   | Max 0.2%              |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyril)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

**Disclaimer:** Golden Grove Naturals cannot be held liable for any loss or damage suffered by any person as a result of following of relying on the information disclosed. The use of this information is the responsibility of the user. When a batch is specified, the information disclosed is for this particular batch only and representative of products of the same code and description.

## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex. for details) | Level of use % |
|---|----------------|
| 1                                       | ≤ 5%           |
| 2                                       | 5%             |
| 3.A                                     | 5%             |
| 3.B                                     | 5%             |
| 3.C                                     | 5%             |
| 3.D                                     | 5%             |
| 4.A                                     | 5%             |
| 4.B                                     | 5%             |
| 4.C                                     | 5%             |
| 4.D                                     | 5%             |
| 5                                       | 5%             |
| 6                                       | 5%             |
| 7.A                                     | 5%             |
| 7.B                                     | 5%             |
| 8.A                                     | 5%             |
| 8.B                                     | 5%             |
| 9.A                                     | 5%             |
| 9.B                                     | 5%             |
| 9.C                                     | 5%             |
| 10.A                                    | 5%             |
| 10.B                                    | 5%             |
| 11                                      | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 223749-44-8  |
| EINECS #            | : N/A  |
| Product Description | : Pale yellow clear slightly viscous liquid with characteristic acrid & woody odour.                             |
| Origin              | : The volatile oil obtained by steam distillation of the leaves and terminal branches of Leptospermum scoparium. |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |   |
|-----------------------------|---|
| Appearance                  | : Pale yellow clear liquid                                  |
| Physical Status             | : Viscous   |
| Flash Point (Closed cup) °C | : 98.6°C  |
| Refractive Index            | : 1.496 - 1.506 @20°C                                       |
| Relative Density            | : 0.920 - 0.990 @20°C                                       |
| Optical Rotation            | : N/A   |
| Solubility in Alcohol       | : 1:6 in 90% ethanol  |
| Solubility in Water         | : Insoluble   |
| Shelf Life                  | : 12 months under proper storage conditions.                |
| Legislation                 | : Natural   |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents. |
| Uses                        | : Aromatherapy & Skin care                                  |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

#### PACKING & STORAGE :

Should be stored in a cool, dry well ventilated places in fully tight sealed containers protected from light. Containers should be kept away from light and source of ignition.

#### Notes

Oil is extracted from the aerial parts of the plant by steam distillation. East Cape Manuka is known for its many unique properties and is grown and harvested wild. Also known as Red Manuka or Kahikatoa. It has exceptional scientific pharmacological efficacy with unique and superior antimicrobial properties.

#### PERFUMERY

Earthy & green

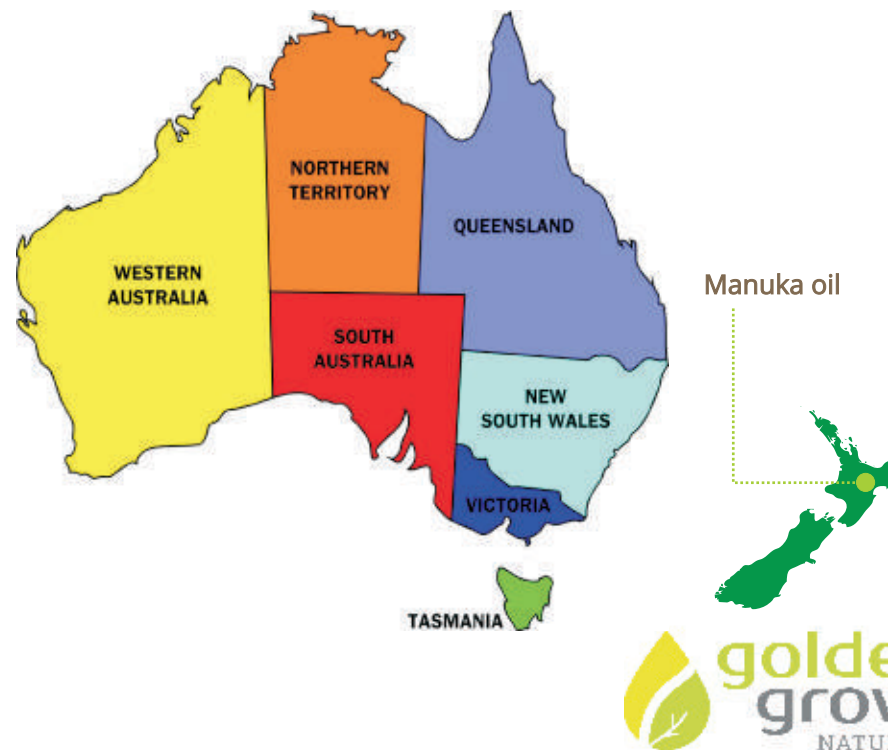
Medicinal

Effective as part of natural fragrance in pharmacological and cosmetic products

#### AROMATHERAPY

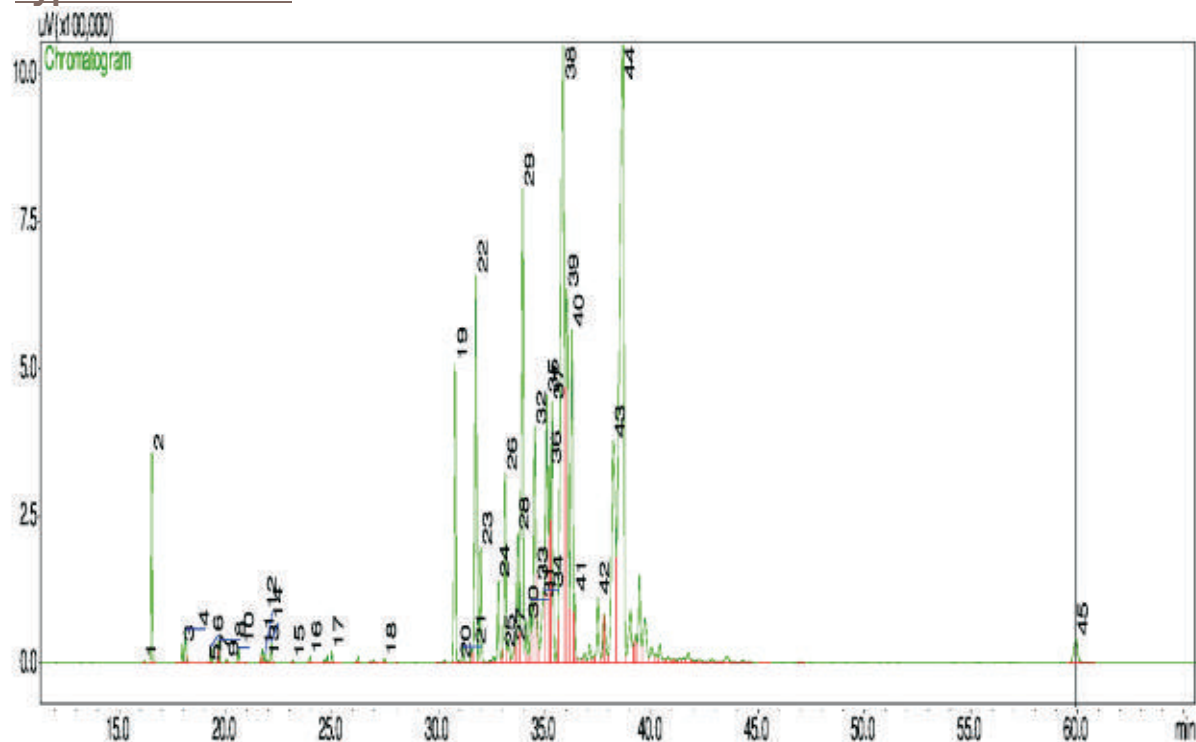
Very strong antibacterial, antiviral and anti-parasitic properties

Antimicrobial High in  $\beta$ -triketones





## Typical GC Profile



| Peak # | Compound Name                      | Area% | ACCEPTABLE RANGE |
|--------|------------------------------------|-------|------------------|
| 1      | ALPHA-THUJENE                      | 0.02  |                  |
| 2      | ALPHA-PINENE                       | 1.62  |                  |
| 3      | BETA-PINENE                        | 0.15  |                  |
| 4      | MYRCENE                            | 0.26  |                  |
| 5      | ALPHA-TERPINENE                    | 0.01  |                  |
| 6      | PARA-CYMENE                        | 0.13  |                  |
| 7      | LIMONENE                           | 0.03  |                  |
| 8      | 1,8-CINEOL                         | 0.17  |                  |
| 9      | TRANS BETA-OCIMENE                 | 0.04  |                  |
| 10     | GAMMA-TERPINENE                    | 0.14  |                  |
| 11     | LINALOOL                           | 0.13  |                  |
| 12     | ISOAMYL ISOVALERATE                | 0.08  |                  |
| 13     | 2-METHYL BUTYL ISOVALERATE         | 0.03  |                  |
| 14     | 3-METHYL-3-BUTYL-3-METHYL BUTYRATE | 0.18  |                  |
| 15     | TERPINEN-4-OL                      | 0.04  |                  |
| 16     | ISOAMYL TIGLATE                    | 0.07  |                  |
| 17     | GERANYL TIGLATE                    | 0.10  |                  |
| 18     | 3-OCTENYL ACETATE                  | 0.05  |                  |
| 19     | ALPHA-CUBEBENE                     | 3.17  |                  |
| 20     | BENZYL ISOVALERATE                 | 0.03  |                  |
| 21     | BENZYL VALERATE                    | 0.18  |                  |
| 22     | ALPHA-COPAENE                      | 4.53  | 2.00 – 6.00%     |
| 23     | BETA-ELEMENE                       | 1.10  |                  |
| 24     | ALPHA-GURJUNENE                    | 0.90  |                  |
| 25     | GAMMA-ELEMENE                      | 0.08  |                  |
| 26     | BETA-CARYOPHYLLENE                 | 2.00  |                  |
| 27     | ALPHA-MURROLENE                    | 0.28  |                  |
| 28     | AROMADENDRENE                      | 1.53  |                  |
| 29     | ISOLEDENE                          | 6.50  | 4.00 – 8.00%     |
| 30     | ALPHA-HUMULENE                     | 0.51  |                  |
| 31     | ALLOAROMADENDRENE                  | 0.66  |                  |
| 32     | CADINA-1(16)-DIENE                 | 3.33  |                  |
| 33     | GAMMA-GURJUNENE                    | 0.63  |                  |
| 34     | ALPHA-FARNESENE                    | 1.19  |                  |
| 35     | BETA-SELINENE                      | 3.54  |                  |
| 36     | GAMMA-MURROLENE                    | 1.96  |                  |
| 37     | ALPHA-SELINENE                     | 3.28  |                  |
| 38     | TRANS-CALAMENENE                   | 10.41 | 7.00 – 11.00%    |
| 39     | FLAVESONE (BETA-TRIKETONE)         | 5.83  |                  |
| 40     | CADINA-1,4-DIENE                   | 4.68  | 3.00 – 7.00%     |
| 41     | BETA-CALACORENE                    | 0.64  |                  |
| 42     | SPATHULENOL                        | 0.86  |                  |
| 43     | ISOLEPTOSPERMONE (BETA-TRIKETONE)  | 5.60  |                  |
| 44     | LEPTOSPERMONE (BETA-TRIKETONE)     | 17.46 |                  |
| 45     | GRANDIFLORONE (BETA-TRIKETONE)     | 0.61  |                  |

## Notes

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | Max 0.1%              |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | Max 0.2%              |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | Max 0.2%              |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lylal)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

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### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 68647-73-4   |
| EINECS #            | : 285-377-1  |
| FEMA                | : 3902   |
| Botanical Name      | : Melaleuca alternifolia   |
| Product Description | : Clear colourless to pale yellow mobile liquid with powerful, fresh, warm spicy earthy odour  |
| Origin              | : Obtained by steam distillation from foliage and terminal branches of Melaleuca alternifolia. |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Colourless to pale yellow                                |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 47°C   |
| Refractive Index            | : 1.475 - 1.482 @20°C                                      |
| Relative Density            | : 0.885 - 0.906 @20°C                                      |
| Optical Rotation            | : +5° to +15°  |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Legislation                 | : Natural  |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Food/Flavour, Fragrance application                      |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

#### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventilated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

#### Notes

Australia's legendary essential oil and for good reason. This traditional oil has been well used for centuries and commercialised in the early 1980's as a super oil. Known locally as a 'first aid' oil, this oil offers a vast amount to any topical, cosmetic and pharmaceutical product. It has a unique odour and represents good value in today's markets.

#### PERFUMERY

Powerful, fresh

Warming, spicy-earthly

Medicinal

Green

Zingy

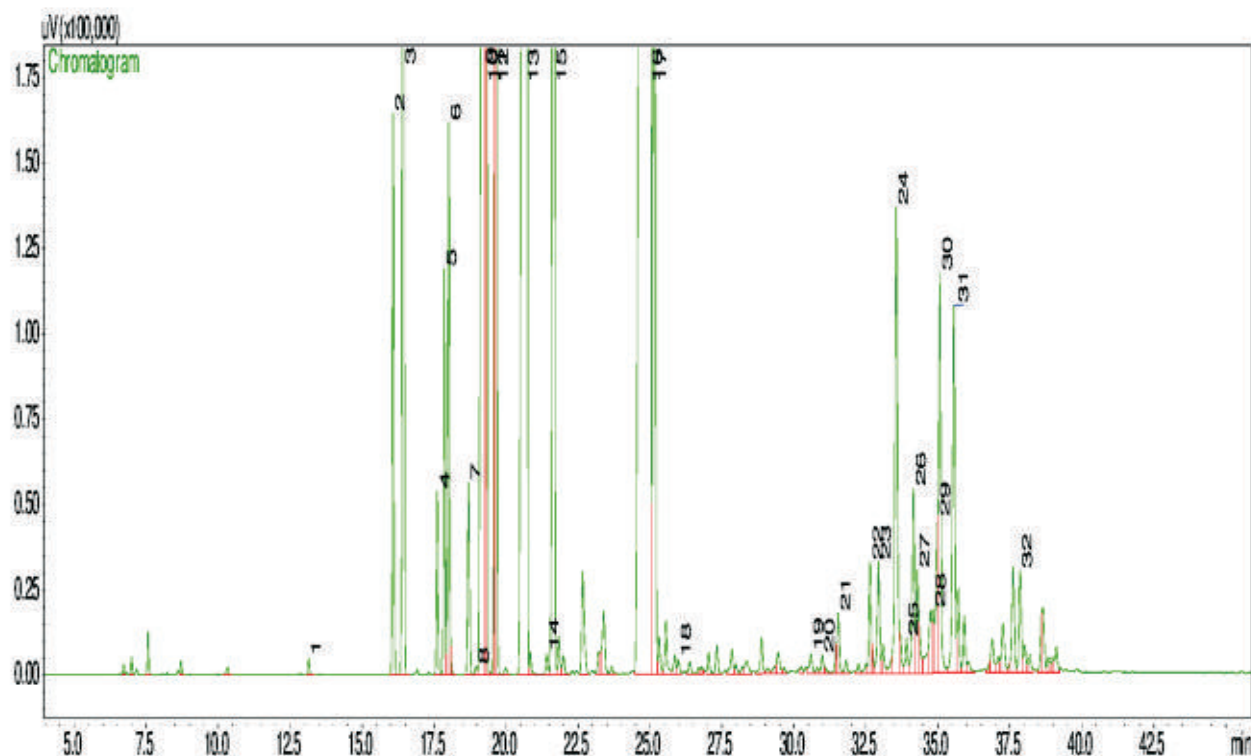
#### AROMATHERAPY

So many including: anti-fungal, anti-microbial and antiseptic. Good for treating cold & flu, dandruff, gingivitis, psoriasis, herpes and more!





## Typical GC Profile



| Peak # | Compound Name               | Area% | ACCEPTABLE RANGE |
|--------|-----------------------------|-------|------------------|
| 1      | CIS-3-HEXENOL               | 0.03  |                  |
| 2      | ALPHA-THUJENE               | 0.87  |                  |
| 3      | ALPHA-PINENE                | 2.42  | 1.00 – 6.00%     |
| 4      | SABINENE                    | 0.30  | MAX 3.5%         |
| 5      | BETA-PINENE                 | 0.66  |                  |
| 6      | MYRCENE                     | 0.89  |                  |
| 7      | ALPHA-PHELLANDRENE          | 0.36  |                  |
| 8      | 1,4-CINEOL                  | 0.02  |                  |
| 9      | ALPHA-TERPINENE             | 9.80  | 5.00 – 13.00%    |
| 10     | PARA-CYMENE                 | 2.82  | 0.5 – 12.00%     |
| 11     | LIMONENE                    | 0.81  | 0.50 – 4.00%     |
| 12     | 1,8-CINEOL                  | 2.86  | MAX 15.00%       |
| 13     | GAMMA-TERPENE               | 20.16 | 10.00 – 28.00%   |
| 14     | ALPHA-PARA-DIMETHYL STYRENE | 0.04  |                  |
| 15     | TERPINOLENE                 | 3.44  | 1.50 – 5.00%     |
| 16     | TERPINEN-4-OL               | 47.39 | MIN 30.00%       |
| 17     | ALPHA-TERPINEOL             | 3.22  | 1.50 – 8.00%     |
| 18     | NEROL                       | 0.03  |                  |
| 19     | ALPHA-CUBEENE               | 0.06  |                  |
| 20     | METHYL EUGENOL              | 0.04  |                  |
| 21     | ALPHA-COPAENE               | 0.13  |                  |
| 22     | ALPHA-GURJUNENE             | 0.23  |                  |
| 23     | BETA-CARYOPHYLLENE          | 0.25  |                  |
| 24     | AROMADENDRENE               | 1.16  | MAX 7.0%         |
| 25     | ALPHA-HUMULENE              | 0.07  |                  |
| 26     | ALLOAROMADENDRENE           | 0.41  |                  |
| 27     | BETA-CADINENE               | 0.23  |                  |
| 28     | BETA-SELINENE               | 0.13  |                  |
| 29     | ALPHA-AMORPHENE             | 0.24  |                  |
| 30     | VIRIDIFLORENE               | 0.99  |                  |
| 31     | DELTA-CADINENE              | 0.87  |                  |
| 32     | VIRIDIFLOROL                | 0.25  |                  |

## Notes

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | 0.5 – 4.0%            |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lylal)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

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It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 8022-72-8   |
| EINECS #            | : 285-377-1   |
| Product Description | : Clear pale yellow to yellow liquid liquid having characteristic, kunzea aroma |
| Origin              | : Obtained by the steam distillation from the leaves of Melaleuca ericaefolia   |

### PHYSICO-CHEMICAL PROPERTIES :

|                             |   |
|-----------------------------|---|
| Appearance                  | : Pale yellow to yellow                                     |
| Physical Status             | : LIQUID  |
| Flash Point (Closed cup) °C | : 68°C  |
| Refractive Index            | : 1.468-1.482 @25°C   |
| Relative Density            | : 0.890-0.980 @25°C   |
| Optical Rotation            | : No data available   |
| Solubility in Alcohol       | : Soluble   |
| Solubility in Water         | : Insoluble   |
| Shelf Life                  | : 12 months or longer under proper storage conditions.      |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents. |
| Uses                        | : Perfumes & Fragrances                                     |

### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventullated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

### Notes

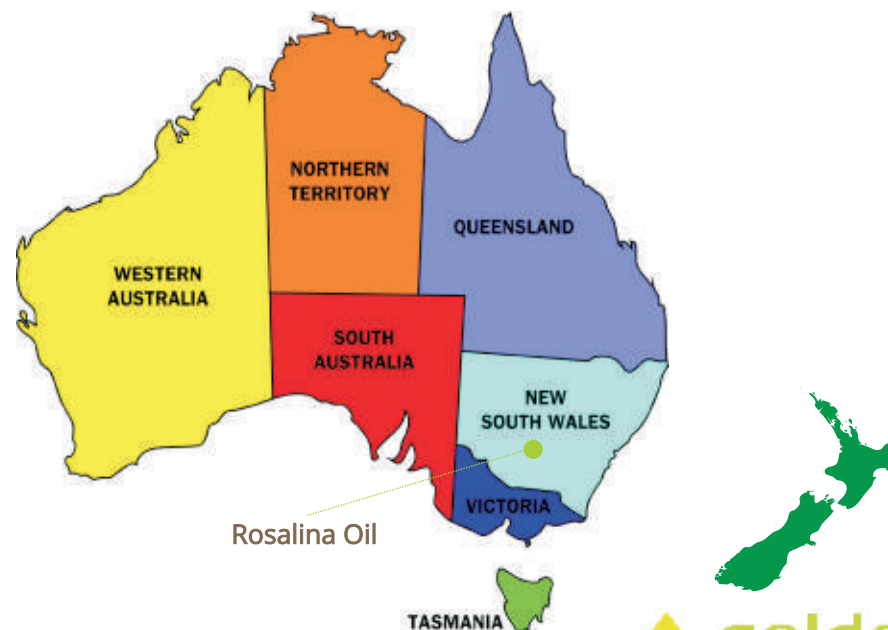
Also known as Lavender Tea Tree, Rosalina is part of the Australian Melaleuca family. Originally referred to as 'Swap Paperbark', Melaleuca ericifolia is a small tree growing to 7-9 metres with narrow leaves. This oil offers both the linalool and 1,8 cineole components that highlight those respective oils. Typically, linalool is found at concentration levels of 45% and 1,8 cineole around 20%.

### PERFUMERY

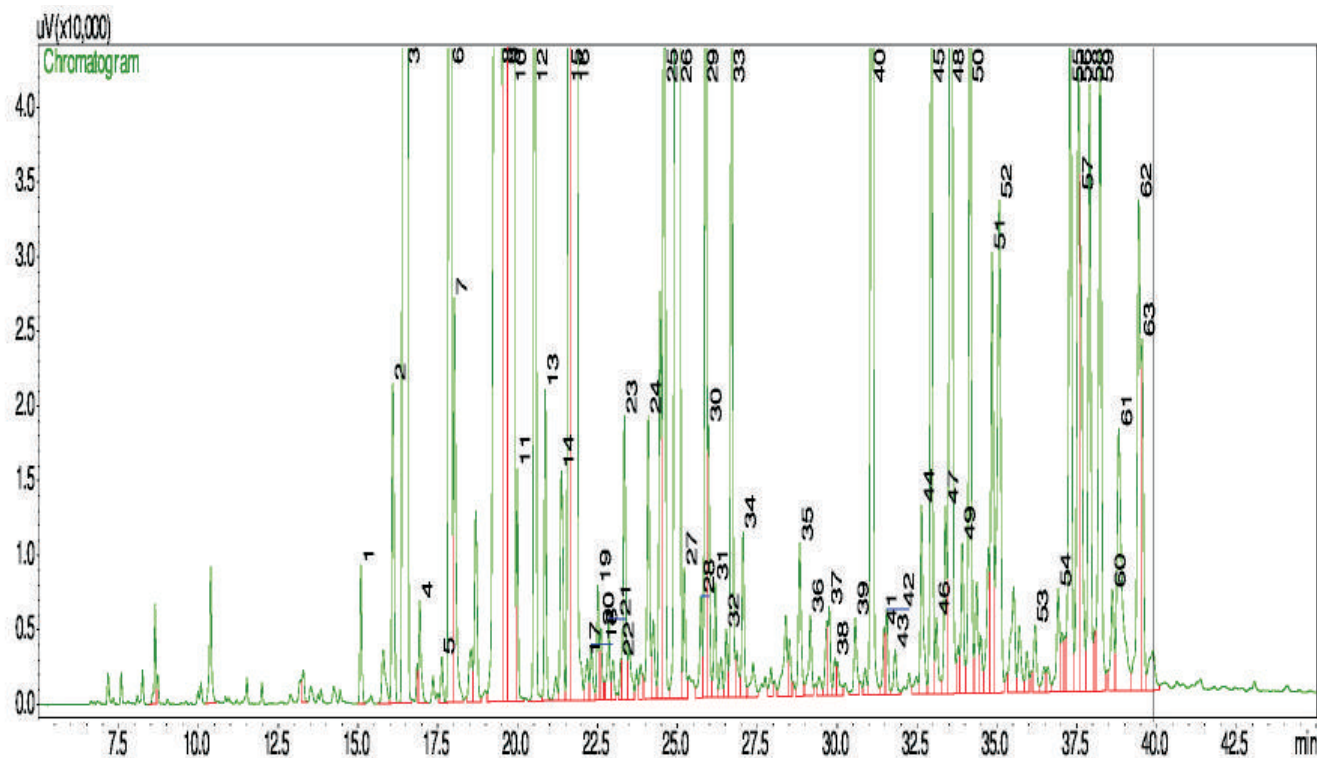
Uplifting lemon infused in fresh pine  
floating on the back of a buttery wind

### AROMATHERAPY

Anti-bacterial  
Anti-viral  
Immune Stimulant  
Sedative  
Decongestant  
Ease Insomnia  
Calms anxiety



## Typical GC Profile



| Peak # | Compound Name              | Area% | ACCEPTABLE RANGE |
|--------|----------------------------|-------|------------------|
| 1      | ISOBUTYL BUTYRATE          | 0.05  |                  |
| 2      | ALPHA-THUIRENE             | 0.15  |                  |
| 3      | ALPHA-PINENE               | 16.32 | 14.0 – 20.0%     |
| 4      | CAMPHENE                   | 0.05  |                  |
| 5      | SABINENE                   | 0.02  |                  |
| 6      | BETA-PINENE                | 2.82  | 0.6 – 3.5%       |
| 7      | MYRCENE                    | 0.21  |                  |
| 8      | PARA-CYME                  | 2.37  | 1.6 – 5.0%       |
| 9      | LIMONENE                   | 6.61  | 3.8 – 8.0%       |
| 10     | 1,8-CINEOL                 | 43.94 | 27.5 – 45%       |
| 11     | TRANS-BETA-OCIMENE         | 0.08  |                  |
| 12     | GAMMA-TERPINENE            | 0.80  |                  |
| 13     | CIS-LINALOOL OXIDE         | 0.13  |                  |
| 14     | TRANS-LINALOOL OXIDE       | 0.14  |                  |
| 15     | ALPHA-TERPINOLENE          | 0.78  |                  |
| 16     | LINALOOL                   | 9.99  | 8 – 16%          |
| 17     | ROSE OXIDE                 | 0.02  |                  |
| 18     | METHYLOCTANOATE            | 0.02  |                  |
| 19     | FENCHYL ALCOHOL            | 0.05  |                  |
| 20     | ALPHA-CAMPHOLENIC ALDEHYDE | 0.03  |                  |
| 21     | NOPINONE                   | 0.04  |                  |
| 22     | ISOPINOCAVEOL              | 0.02  |                  |
| 23     | DELTA-TERPINEOL            | 0.15  |                  |
| 24     | BORNEOL                    | 0.15  |                  |
| 25     | TERPINEN-4-OL              | 0.56  |                  |
| 26     | ALPHA-TERPINEOL            | 4.81  | 3.5 – 7.0%       |
| 27     | MYRTENOL                   | 0.06  |                  |
| 28     | TRANS-CARVEOL              | 0.06  |                  |
| 29     | CITRONELLOL                | 0.43  |                  |
| 30     | NEROL                      | 0.10  |                  |
| 31     | NERAL                      | 0.06  |                  |
| 32     | PHENYL ETHYL ACETATE       | 0.03  |                  |
| 33     | GERANIOL                   | 0.37  |                  |
| 34     | GERANIAL                   | 0.08  |                  |
| 35     | METHYL GERANIC ACID        | 0.09  |                  |
| 36     | MYRTENYL ACETATE           | 0.05  |                  |
| 37     | CITRONELLYL ACETATE        | 0.04  |                  |
| 38     | MYRTYL ACETATE             | 0.02  |                  |
| 39     | GERANYL ACETATE            | 0.05  |                  |
| 40     | PHENYL ETHYL BUTYRATE      | 0.90  |                  |
| 41     | ISOEUDENE                  | 0.02  |                  |
| 42     | GUAI-6,9-DIENE             | 0.04  |                  |
| 43     | BETA-ELEMENE               | 0.03  |                  |
| 44     | ALPHA-GURJUNENE            | 0.11  |                  |
| 45     | BETA-CARYOPHYLLENE         | 0.39  |                  |
| 46     | GAMMA-MALUENE              | 0.04  |                  |
| 47     | BETA-GURJUNENE             | 0.10  |                  |
| 48     | AROMADENDRENE              | 1.05  | 1 – 5.8%         |
| 49     | ALPHA-HUMULENE             | 0.09  |                  |
| 50     | ALLOAROMADENDRENE          | 0.44  |                  |
| 51     | BETA-SELINENE              | 0.24  |                  |
| 52     | ALPHA-SELINENE             | 0.37  |                  |
| 53     | ALPHA-ELEMOL               | 0.04  |                  |
| 54     | GLOBULOL                   | 0.07  |                  |
| 55     | SPATHULENOL                | 0.48  |                  |
| 56     | CARYOPHYLENE OXIDE         | 0.32  |                  |
| 57     | VIROIDOL                   | 0.26  |                  |
| 58     | EPIGLOBULOL                | 0.36  |                  |
| 59     | LEDOL                      | 0.43  |                  |
| 60     | ROSIFOLIOL                 | 0.07  |                  |
| 61     | GAMMA-EUDESOL              | 0.28  |                  |
| 62     | BETA-EUDESOL               | 0.33  |                  |
| 63     | ALPHA-EUDESOL              | 0.18  |                  |

## Notes



## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients   | Total Contents (%w/w) |
|---|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                 | -                     |
| Amyl Cinnamal (122-40-7)  | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                    | -                     |
| Anise Alcohol (105-13-5)  | -                     |
| Benzyl Alcohol (100-51-6)   | -                     |
| Benzyl Benzoate (120-51-4)  | -                     |
| Benzyl Cinnamate (103-41-3)                                       | -                     |
| Benzyl Salicylate (118-58-1)                                      | -                     |
| Cinnamal (104-55-2)   | -                     |
| Cinnamyl Alcohol (104-54-1)                                       | -                     |
| Citral (5392-40-5)  | -                     |
| Citronellol (106-22-9)  | Max 1%                |
| Coumarin (91-64-5)  | -                     |
| Limonene (5989-27-5)  | -                     |
| Eugenol (97-53-0)   | 3.0 - 8.0%            |
| Farnesol (4602-84-0)  | -                     |
| Geraniol (106-24-1)   | Max 1%                |
| Hexyl Cinnamal (101-86-0)   | -                     |
| Hydroxycitronellal (107-75-5)                                     | -                     |
| Isoeugenol (97-54-1)  | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                     | -                     |
| Linalool (78-70-6)  | 8.0 - 16.0%           |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyrall)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                     | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)   | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)     | -                     |

**Disclaimer:** Golden Grove Naturals cannot be held liable for any loss or damage suffered by any person as a result of following or relying on the information disclosed. The use of this information is the responsibility of the user. When a batch is specified, the information disclosed is for this particular batch only and representative of products of the same code and description.

## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

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### Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 1429902-59-9  |
| EINECS #            | : N/A   |
| Product Description | : Thick reddish brown to brown liquid with tenaceous, unique, smooth, sweet woody oak odour |
| Origin              | : Obtained by steam distillation of Eremophila mitchellii wood                              |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Reddish brown to brown                                   |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : >100°C   |
| Refractive Index            | : 1.510 - 1.540 @20°C                                      |
| Relative Density            | : 0.990 - 1.050 @20°C                                      |
| Optical Rotation            | : --   |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Legislation                 | : Natural  |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Perfumes & cosmetics                                     |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

#### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventilated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

#### Notes

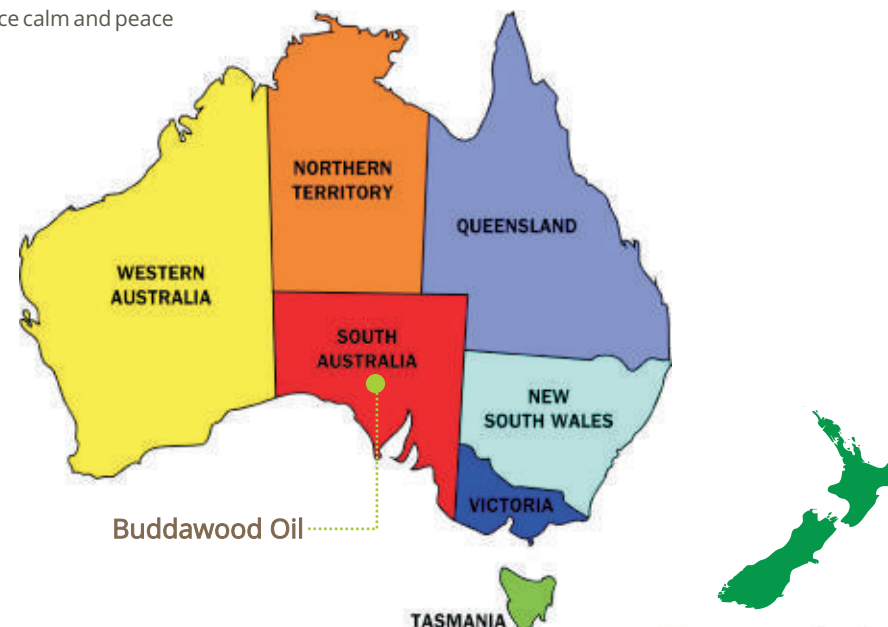
Eremophila Mitchellii is an Australian native tree commonly found from Northern South Australia to North West Queensland. It is also known as "false sandalwood". Produced by steam distillation over 7-10 days, this project is fully government supported and therefore sustainable

#### PERFUMERY

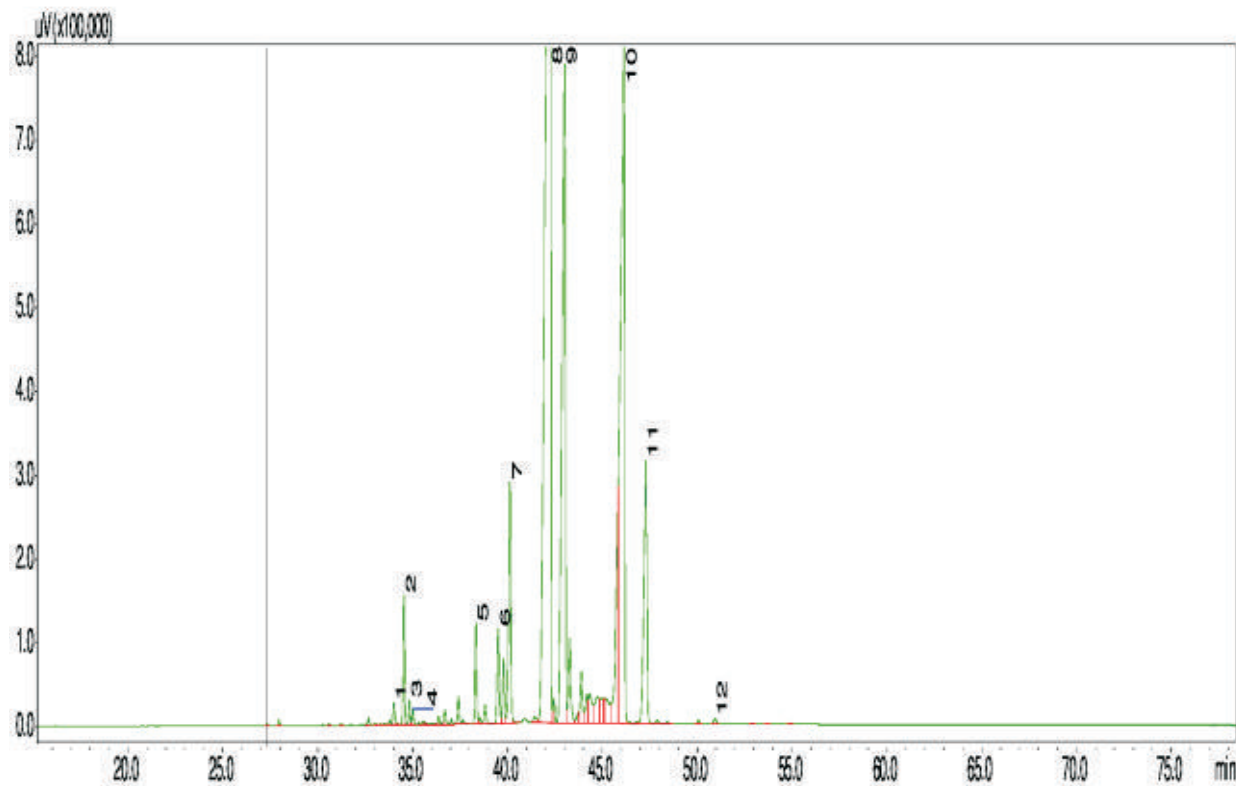
Woody base note  
Natural fixative properties  
Popular across Middle-East  
Smooth, Sweet, Oak notes

#### AROMATHERAPY

Cut & sores healing properties  
Relieve muscular pains  
Centre emotions  
Enhance calm and peace



## Typical GC Profile



| Peak# | Compound Name                | Area% | ACCEPTABLE RANGE |
|-------|------------------------------|-------|------------------|
| 1     | GAMMA-SELINENE               | 0.28  | 0.10 – 0.40%     |
| 2     | BETA-SELINENE                | 1.39  | 0.90 – 2.30%     |
| 3     | ALPHA-SELINENE               | 0.24  | 0.20 – 1.00%     |
| 4     | EMOPHILA-1(10),8, TRIE       | 0.16  |                  |
| 5     | NEOINTERMDOL                 | 1.17  | 0.95 – 1.60%     |
| 6     | GLOBULOL                     | 1.32  |                  |
| 7     | EREMOPHILA-1,11-DIENE-9-ONE  | 3.59  |                  |
| 8     | EREMOPHILLONE                | 38.29 | 32.0 – 40.0%     |
| 9     | HYDROXY DIHYDROEREMOPHILLONE | 15.25 | 13.0 – 18.5%     |
| 10    | HYDROXYL EREMOPHILLONE       | 19.81 | 19.0 – 26.5%     |
| 11    | ISOLANTOLACTONOID BUTENOLIDE | 5.49  |                  |
| 12    | TRANS-9-OXOEREMOPHILLANE     | 0.10  |                  |

## Notes

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | -                     |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 5%           |
| 2                                      | 5%             |
| 3.A                                    | 5%             |
| 3.B                                    | 5%             |
| 3.C                                    | 5%             |
| 3.D                                    | 5%             |
| 4.A                                    | 5%             |
| 4.B                                    | 5%             |
| 4.C                                    | 5%             |
| 4.D                                    | 5%             |
| 5                                      | 5%             |
| 6                                      | 5%             |
| 7.A                                    | 5%             |
| 7.B                                    | 5%             |
| 8.A                                    | 5%             |
| 8.B                                    | 5%             |
| 9.A                                    | 5%             |
| 9.B                                    | 5%             |
| 9.C                                    | 5%             |
| 10.A                                   | 5%             |
| 10.B                                   | 5%             |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

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## Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 187348-13-6   |
| EINECS #            | : N/A   |
| Product Description | : Dark blue to bluish green, mobile liquid with characteristic woody odour.                           |
| Origin              | : Obtained from steam distillation of wood chips (bark & wood) of cypress tree Callitris intratropica |

### PHYSICO-CHEMICAL PROPERTIES :

|                             |   |
|-----------------------------|---|
| Appearance                  | : Dark blue to bluish green                                 |
| Physical Status             | : LIQUID  |
| Flash Point (Closed cup) °C | : >110°C  |
| Refractive Index            | : 1.493-1.513 @20°C   |
| Relative Density            | : 0.970-0.990 @20°C   |
| Optical Rotation            | : N/A   |
| Solubility in Alcohol       | : Soluble   |
| Solubility in Water         | : Insoluble   |
| Shelf Life                  | : 12 months under recommended storage conditions.           |
| Legislation                 | : Natural   |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents. |
| Uses                        | : Perfumes & cosmetics.                                     |

### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventullated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

### Notes

Blue Cypress is a tree native to Australia growing in the Northern Territory. The tree grows freely and is wild-harvested to produce the oil, under a well- managed sustainability scheme imposed by the state government. Produced by steam distillation over 5 days. Blue in colour which comes from the bark.

### PERFUMERY

Alternative to vetiver

Excellent for Men's fragrances

Works well in cosmetics

Floral, Woody, Tonka, Earthy notes

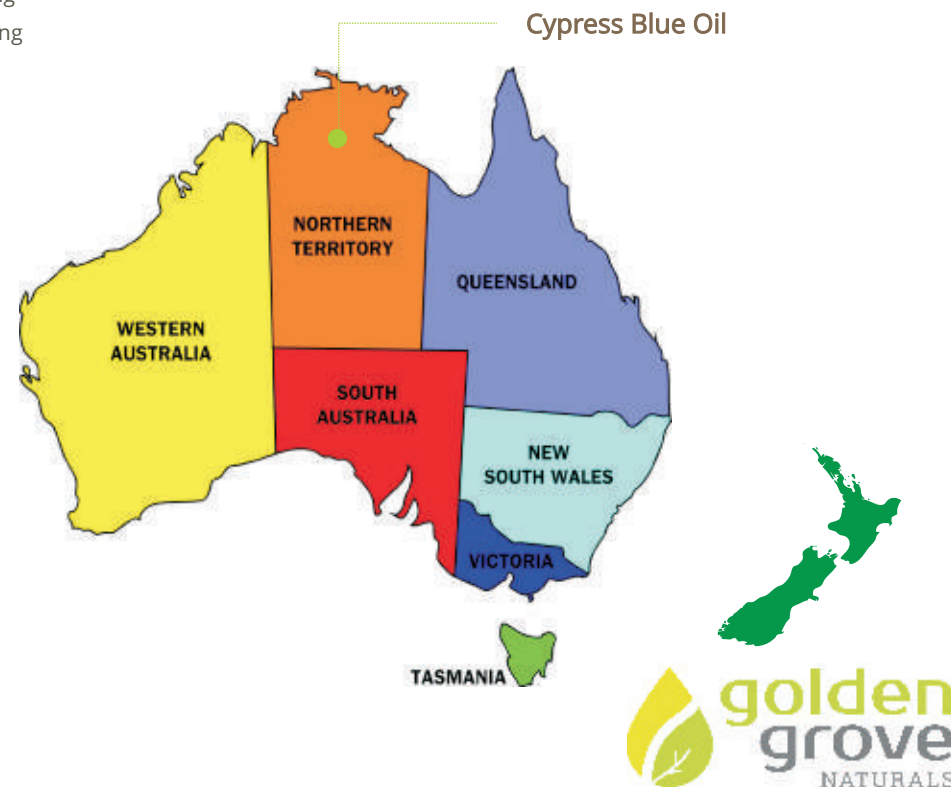
### AROMATHERAPY

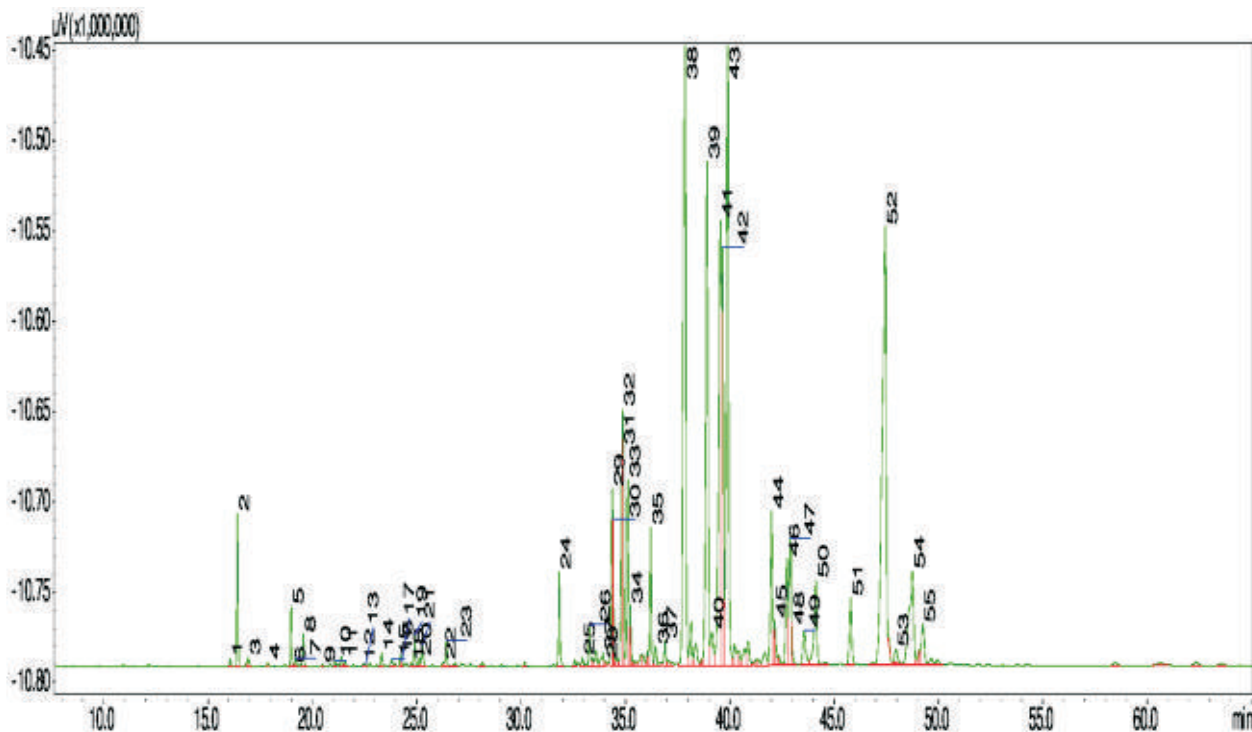
Anti-viral

Anti-inflammatory

Calming

Soothing



**Typical GC Profile**

| Peak # | Compound Name               | Area % | ACCEPTABLE RANGE |
|--------|-----------------------------|--------|------------------|
| 1      | ALPHA-THUJENE               | 0.06   |                  |
| 2      | ALPHA-PINENE                | 1.24   | 0.03 – 3.10%     |
| 3      | CAMPHENE                    | 0.10   |                  |
| 4      | BETA-PINENE                 | 0.03   |                  |
| 5      | DELTA-3-CARENE              | 0.53   |                  |
| 6      | ALPHA-TERPINENE             | 0.02   |                  |
| 7      | PARA-CYMENTHENE             | 0.07   |                  |
| 8      | EUCALYPTOL                  | 0.03   |                  |
| 9      | GAMMA-TERPINENE             | 0.02   |                  |
| 10     | ALPHA-PARA-DIMETHYL STYRENE | 0.05   |                  |
| 11     | ALPHA-TERPINOLENE           | 0.06   |                  |
| 12     | FENCHYL ALCOHOL             | 0.02   |                  |
| 13     | ALPHA-CAMPHOLENIC ALDEHYDE  | 0.02   |                  |
| 14     | TRANS-PINOCARVEOL           | 0.14   |                  |
| 15     | TRANS-PINOCAMPHONE          | 0.08   |                  |
| 16     | BORNEOL                     | 0.12   |                  |
| 17     | ISOPINOCAMPHONE             | 0.02   |                  |
| 18     | TRIPINEN-4-OL               | 0.02   |                  |
| 19     | ALPHA-TERPINOL              | 0.32   |                  |
| 20     | MYRTENAL                    | 0.09   |                  |
| 21     | VERBENONE                   | 0.22   |                  |
| 22     | TRANS-MYRTENOL              | 0.05   |                  |
| 23     | 2-CARENE-10-AL              | 0.31   |                  |
| 24     | BETA-ELEMENE                | 1.01   | 1.00 – 1.60%     |
| 25     | BETA-CARYOPHYLLENE          | 0.13   |                  |
| 26     | ALPHA-GUAIENE               | 0.46   |                  |
| 27     | ALPHA-HUMULENE              | 0.25   |                  |
| 28     | ALPHA-GURJUNENE             | 0.05   |                  |
| 29     | MYRTENIC ACID               | 1.88   | 0.70 – 2.50%     |
| 30     | ISOLONGIFOLENE-9,10-DIHYDRO | 1.41   | 1.40 – 1.80%     |
| 31     | GAMMA-SELINENE              | 1.59   | 1.30 – 3.10%     |
| 32     | BETA-SELINENE               | 2.59   | 2.50 – 6.00%     |
| 33     | ALPHA-SELINENE              | 2.27   | 1.10 – 2.90%     |
| 34     | DELTA-GUAIENE               | 2.25   | 1.70 – 4.00%     |
| 35     | ALPHA-ELEMOL                | 1.72   | 1.20 – 2.50%     |
| 36     | ALLOAROMADENDRENE           | 0.26   |                  |
| 37     | GAMMA-GURJUNEN              | 0.32   |                  |
| 38     | GUAIOL                      | 14.64  | 12.50 – 18.70%   |
| 39     | GAMMA-EUDESOL               | 8.40   | 5.90 – 8.70%     |
| 40     | 10-EPI-GAMMA-EUDESOL        | 0.71   |                  |
| 41     | BETA-EUDESOL                | 6.31   | 5.00 – 7.20%     |
| 42     | ALPHA-EUDESOL               | 5.37   | 3.90 – 6.70%     |
| 43     | BULNESOL                    | 10.58  | 7.10 – 11.80%    |
| 44     | GAMMA-COSTOL                | 2.47   |                  |
| 45     | CHAMAZULENE                 | 0.62   | 0.20 – 0.70%     |
| 46     | BETA-COSTOL                 | 1.64   |                  |
| 47     | ALPHA-COSTOL                | 1.75   |                  |
| 48     | GUAIAZULENE                 | 0.32   | 0.30 – 0.92%     |
| 49     | CALLITRIN                   | 0.74   |                  |
| 50     | CALLITRIN ISOMER            | 1.74   |                  |
| 51     | CALLITRISIN ISOMER          | 1.14   |                  |
| 52     | DIHYDROCOLUMELLARIN         | 10.12  | 5.70 – 10.40%    |
| 53     | CALLITRISIN                 | 0.28   |                  |
| 54     | COLUMELLARIN                | 1.23   | 0.70 – 1.40%     |
| 55     | DIHYDROCALLITRISIN          | 0.89   | 0.50 – 1.00%     |

**Notes**

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients   | Total Contents (%w/w) |
|---|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                 | -                     |
| Amyl Cinnamal (122-40-7)  | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                    | -                     |
| Anise Alcohol (105-13-5)  | -                     |
| Benzyl Alcohol (100-51-6)   | -                     |
| Benzyl Benzoate (120-51-4)  | -                     |
| Benzyl Cinnamate (103-41-3)                                       | -                     |
| Benzyl Salicylate (118-58-1)                                      | -                     |
| Cinnamal (104-55-2)   | -                     |
| Cinnamyl Alcohol (104-54-1)                                       | -                     |
| Citral (5392-40-5)  | -                     |
| Citronellol (106-22-9)  | -                     |
| Coumarin (91-64-5)  | -                     |
| Limonene (5989-27-5)  | -                     |
| Eugenol (97-53-0)   | -                     |
| Farnesol (4602-84-0)  | -                     |
| Geraniol (106-24-1)   | -                     |
| Hexyl Cinnamal (101-86-0)   | -                     |
| Hydroxycitronellal (107-75-5)                                     | -                     |
| Isoeugenol (97-54-1)  | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                     | -                     |
| Linalool (78-70-6)  | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyrall)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                     | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)   | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)     | -                     |

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|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

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## Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 8024-35-9   |
| FEMA                | : N/A   |
| EINECS #            | : 296-618-5   |
| Product Description | : Colourless to pale yellow, somewhat viscous oily liquid having a strong characteristic woody, balsamic odour. |
| Origin              | : Volatile oil obtained by steam distillation from dried roots and woods of <i>Santalum spicatum</i> .          |

### PHYSICO-CHEMICAL PROPERTIES :

|                             |   |
|-----------------------------|---|
| Appearance                  | : Colourless to pale yellow                                 |
| Physical Status             | : LIQUID  |
| Flash Point (Closed cup) °C | : >100°C  |
| Refractive Index            | : 1.500 - 1.517 @20°C                                       |
| Relative Density            | : 0.945 - 0.980 @20°C                                       |
| Optical Rotation            | : -16° to +4°   |
| Solubility in Alcohol       | : Soluble   |
| Solubility in Water         | : Insoluble   |
| Shelf Life                  | : 12 months under recommended storage conditions.           |
| Legislation                 | : Natural   |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents. |
| Uses                        | : Perfumes & cosmetics.                                     |

**HANDLING PRECAUTION:** Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventillated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

### Notes

'Australian' sandalwood is a desert type of tree native to the middle and southern parts of Western Australia. Since the late 1990s many long-term plantations have been established covering around 15,000 hectares growing at a further 1,500 hectares per year. Harvested at 15-20 years and produced by a 7 day steam distillation.

### PERFUMERY

Woody base note

Natural fixative properties

Plantation sustainability

Smooth, Sweet, Oak notes

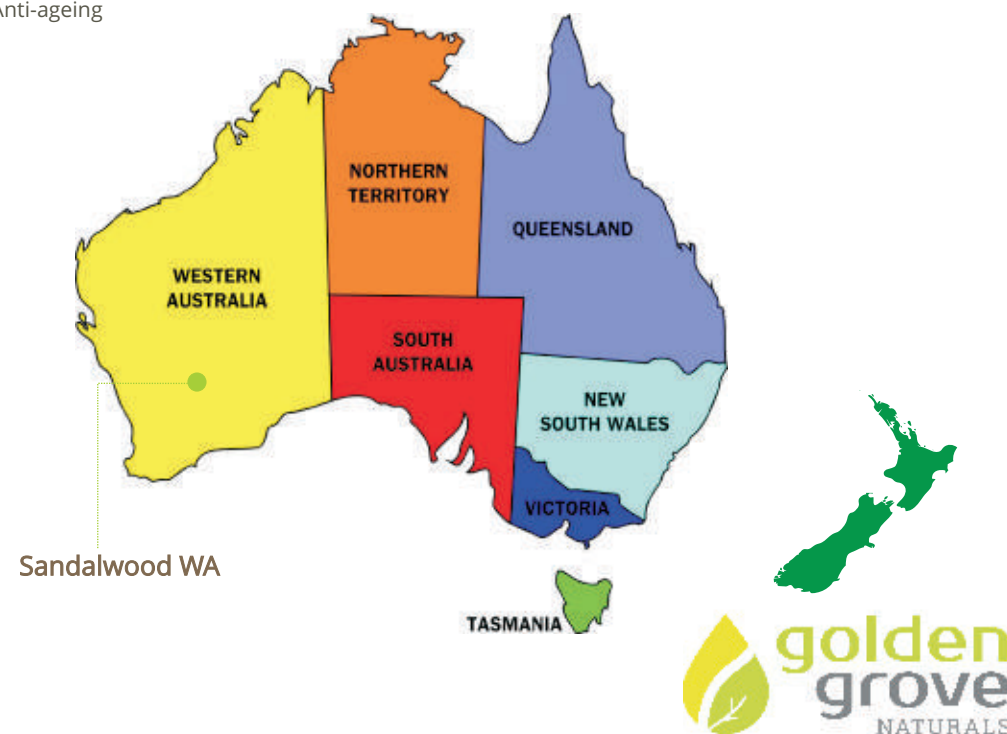
### AROMATHERAPY

Anti-viral and antiseptic

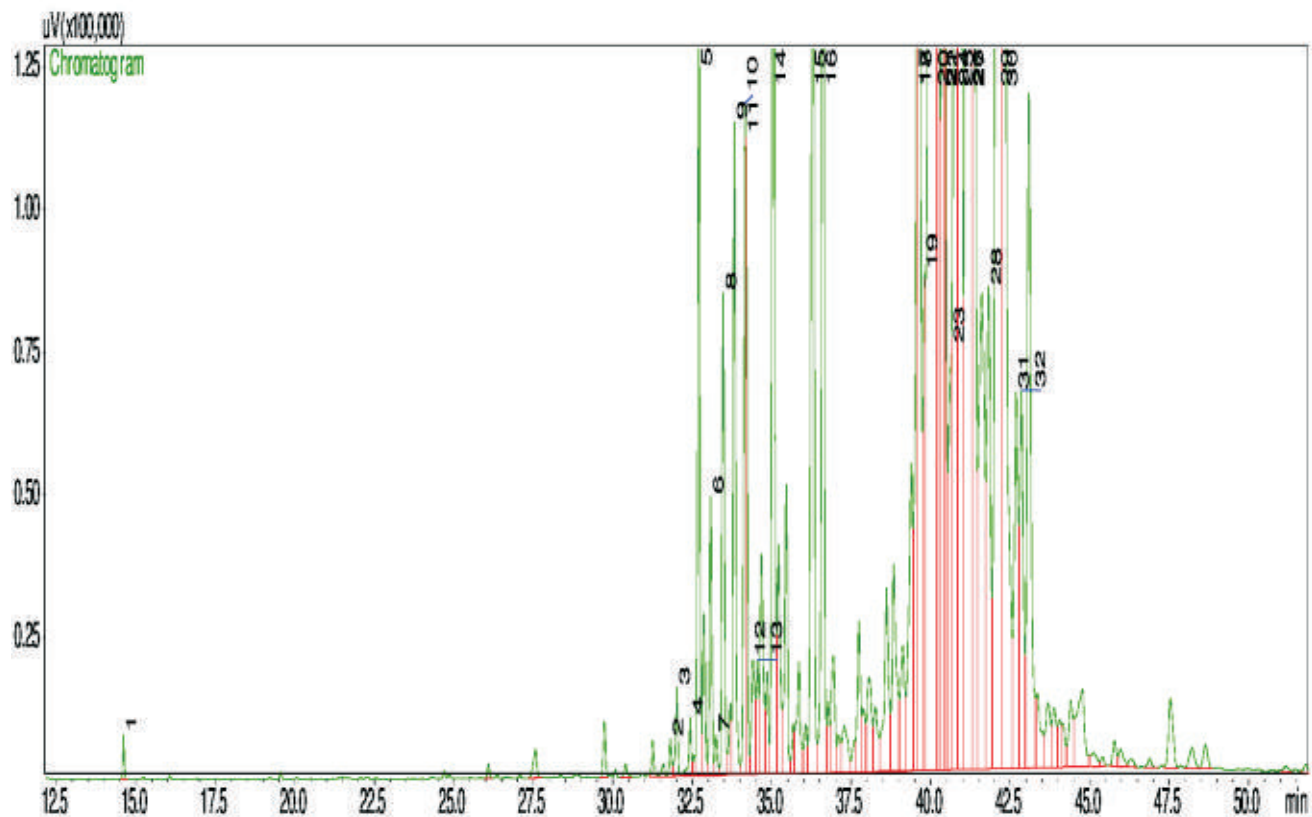
Anti-inflammatory

Relaxing & calming

Anti-ageing





**Typical GC Profile**

| Peak # | Compound Name              | Area% | ACCEPTABLE RANGE |
|--------|----------------------------|-------|------------------|
| 1      | SANTENE                    | 0.05  |                  |
| 2      | BETA-ELEMENE               | 0.05  |                  |
| 3      | 7-EPI-SESQUITHUENE         | 0.13  |                  |
| 4      | CIS-ALPHA-BERGAMOTENE      | 0.09  |                  |
| 5      | ALPHA-SANTALENE            | 1.08  |                  |
| 6      | TRANS-ALPHA-BERGAMOTENE    | 0.39  |                  |
| 7      | TRANS-BETA-FARNESENE       | 0.06  |                  |
| 8      | EPI-BETA-SANTALENE         | 0.71  |                  |
| 9      | BETA-SANTALENE             | 0.96  |                  |
| 10     | GAMMA-CURCUMENE            | 0.89  |                  |
| 11     | BETA-CURCUMENE             | 0.52  |                  |
| 12     | SELINA-4,11-DIENE          | 0.24  |                  |
| 13     | BETA-BISABOLENE            | 0.18  |                  |
| 14     | AR-CURCUMENE               | 1.74  |                  |
| 15     | NEROLIDOL                  | 2.59  |                  |
| 16     | DENDERALASIN               | 1.91  |                  |
| 17     | BETA-BISABOLOL             | 0.78  |                  |
| 18     | ALPHA-BISABOLOL            | 2.72  | 2.00 – 12.50%    |
| 19     | EPI-ALPHA-SANTALOL         | 0.77  |                  |
| 20     | CIS-ALPHA-SANTALOL         | 19.90 | 15.00 – 25.00%   |
| 21     | CIS-TRANS-ALPHA-BERGAMOTOL | 3.26  | 2.00 – 10.00%    |
| 22     | TRANS-ALPHA-SANTALOL       | 1.01  |                  |
| 23     | EPI-BETA-SANTALOL          | 0.73  | 0.50 – 3.50%     |
| 24     | CIS-BETA-SANTALOL          | 5.35  | 5.00 – 20.00%    |
| 25     | TRANS-TRANS-ALPHA-FARNESOL | 5.25  | 2.50 – 15.00%    |
| 26     | CIS-NUCIFEROL              | 6.15  | 2.00 – 15.00%    |
| 27     | CIS-GAMMA-CURCUMENE-12-OL  | 5.46  |                  |
| 28     | TRANS-BETA-SANTALOL        | 1.17  |                  |
| 29     | CIS-BETA-CURCUMENE-12-OL   | 9.47  |                  |
| 30     | CIS-LANCEOL                | 4.45  | 1.00 – 10.00%    |
| 31     | BETA-SINENSAL              | 0.92  |                  |
| 32     | ALPHA-SINENSAL             | 0.90  |                  |

**Notes**

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients   | Total Contents (%w/w) |
|---|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                 | -                     |
| Amyl Cinnamal (122-40-7)  | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                    | -                     |
| Anise Alcohol (105-13-5)  | -                     |
| Benzyl Alcohol (100-51-6)   | -                     |
| Benzyl Benzoate (120-51-4)  | -                     |
| Benzyl Cinnamate (103-41-3)                                       | -                     |
| Benzyl Salicylate (118-58-1)                                      | -                     |
| Cinnamal (104-55-2)   | -                     |
| Cinnamyl Alcohol (104-54-1)                                       | -                     |
| Citral (5392-40-5)  | -                     |
| Citronellol (106-22-9)  | -                     |
| Coumarin (91-64-5)  | -                     |
| Limonene (5989-27-5)  | -                     |
| Eugenol (97-53-0)   | -                     |
| Farnesol (4602-84-0)  | -                     |
| Geraniol (106-24-1)   | -                     |
| Hexyl Cinnamal (101-86-0)   | -                     |
| Hydroxycitronellal (107-75-5)                                     | -                     |
| Isoeugenol (97-54-1)  | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                     | -                     |
| Linalool (78-70-6)  | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyrall)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                     | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)   | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)     | -                     |

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## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 93062-89-6   |
| EINECS #            | : 296-846-5  |
| Product Description | : Dark golden color, mobile liquid with atenacious, unique, smooth sweet woody oak odor. |
| Origin              | : Obtained by the steam distillation from Santalum laceolatum                            |

### PHYSICO-CHEMICAL PROPERTIES :

|                             |   |
|-----------------------------|---|
| Appearance                  | : Dark golden   |
| Physical Status             | : LIQUID  |
| Flash Point (Closed cup) °C | : >100°C  |
| Refractive Index            | : 1.433-1.584 @20°C   |
| Relative Density            | : 0.907-1.002 @25°C   |
| Optical Rotation            | : 0 to -20°   |
| Solubility in Alcohol       | : Soluble   |
| Solubility in Water         | : Insoluble   |
| Shelf Life                  | : 12 months or longer under proper storage conditions.      |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents. |
| Uses                        | : Cosmetics & Fragrances                                    |

### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventullated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

### Notes

A new oil to market from the Queensland sandalwood species that has traditionally been used for incense and carving. It has a light woody odour with a slight citrus undertone and has a lovely golden colour. Supplies are in abundance and current licenses already permit harvesting to allow for upwards of 5MT of oil production.

### PERFUMERY

Light woody notes

Natural fixative properties

Unisex fragrance base

Smooth, Sweet, Citrus notes

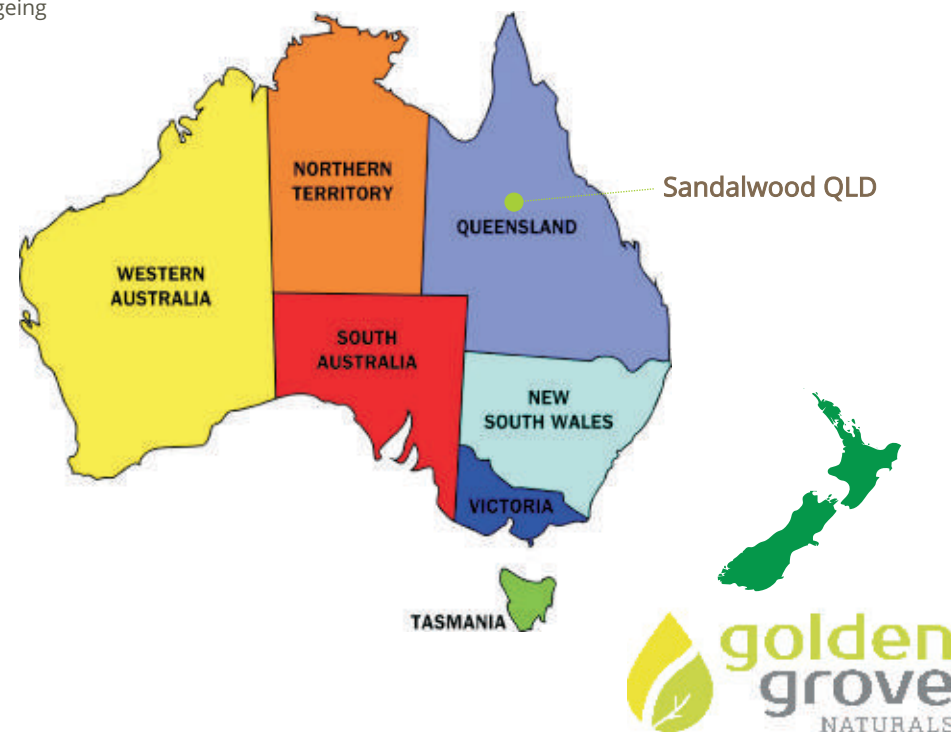
### AROMATHERAPY

Anti-viral and antiseptic

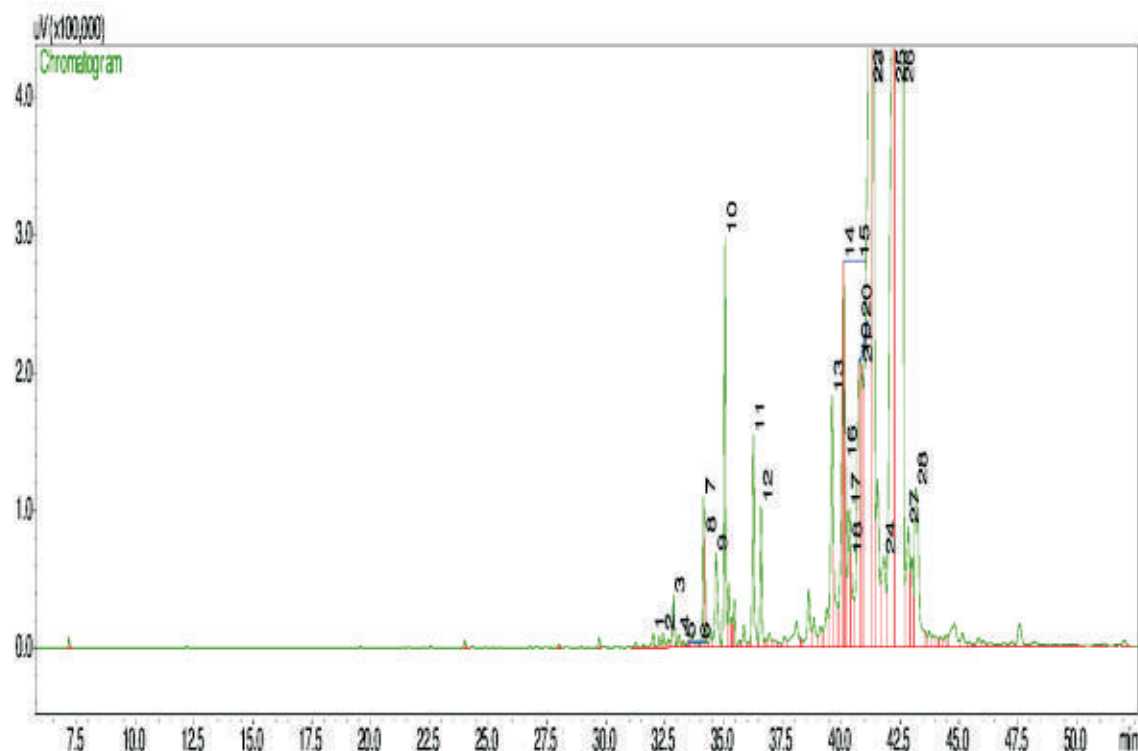
Natural aphrodisiac

Anti-spasmodic

Anti-ageing



## Typical GC Profile



| Peak # | Compound Name              | Area% | ACCEPTABLE RANGE |
|--------|----------------------------|-------|------------------|
| 1      | 7-EPI-SESQUITHUJENE        | 0.11  |                  |
| 2      | CIS-ALPHA-BERGAMOTENE      | 0.08  |                  |
| 3      | ALPHA-SANTALENE            | 0.31  |                  |
| 4      | TRANS-ALPHA-BERGAMOTENE    | 0.09  |                  |
| 5      | TRANS-BETA-FARNESENE       | 0.03  |                  |
| 6      | EPI-BETA-SANTALENE         | 0.03  |                  |
| 7      | GAMMA-CURCUMENE            | 0.18  |                  |
| 8      | BETA-CURCUMENE             | 1.08  |                  |
| 9      | BETA-BISABOLENE            | 2.31  | 1.50 – 5.00%     |
| 10     | AR-CURCUMENE               | 0.79  |                  |
| 11     | NEROLIDOL                  | 1.52  | 1.50 – 5.00%     |
| 12     | DENDERALASIN               | 0.89  |                  |
| 13     | BETA-BISABOLOL             | 0.67  |                  |
| 14     | ALPHA-BISABOLOL            | 2.38  | 1.50 – 9.00%     |
| 15     | EPI-ALPHA-SANTALOL         | 1.32  | 1.00 – 7.00%     |
| 16     | CIS-ALPHA-SANTALOL         | 0.75  |                  |
| 17     | CIS-TRANS-ALPHA-BERGAMOTOL | 0.35  | 0.25 – 2.00%     |
| 18     | TRANS-ALPHA-SANTALOL       | 0.57  |                  |
| 19     | EPI-BETA-SANTALOL          | 0.33  |                  |
| 20     | CIS-BETA-SANTALOL          | 0.12  |                  |
| 21     | TRANS, TRANS-FARNESOL      | 2.97  | 1.50- 8.00%      |
| 22     | CIS-NUCIFEROL              | 11.82 | 7.00 – 12.00%    |
| 23     | CIS-GAMMA-CURCUMENE-12-OL  | 6.23  |                  |
| 24     | TRANS-BETA-SANTALOL        | 0.73  |                  |
| 25     | CIS-BETA-CURCUMENE-12-OL   | 9.41  |                  |
| 26     | CIS-LANCEOL                | 24.01 | 16.00 – 25.00%   |
| 27     | BETA-SINENSAL              | 1.37  |                  |
| 28     | ALPHA-SINENSAL             | 2.30  |                  |

## Notes

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.....

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## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | -                     |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove naturals.

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It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

## Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 8006-87-9  |
| FEMA                | : 3005   |
| EINECS #            | : 284-111-1  |
| Product Description | : Clear, pale yellow to colourless viscous liquid having pleasant, sweet woody and persistent odour      |
| Origin              | : Essential oil is obtained by steam distillation of the heart wood sourced from Australian plantations. |

### PHYSICO-CHEMICAL PROPERTIES :

|                             |   |
|-----------------------------|---|
| Appearance                  | : Clear, pale yellow to colourless                          |
| Physical Status             | : LIQUID  |
| Flash Point (Closed cup) °C | : 136°C   |
| Refractive Index            | : 1.503 - 1.509 @20°C                                       |
| Relative Density            | : 0.968 - 0.983 @20°C                                       |
| Optical Rotation            | : -12° to -21°  |
| Solubility in Alcohol       | : Soluble   |
| Solubility in Water         | : Insoluble   |
| Shelf Life                  | : 12 months or longer under proper storage conditions.      |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents. |
| Uses                        | : Fragrance & Flavour Application                           |

### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventilated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min.

### Notes

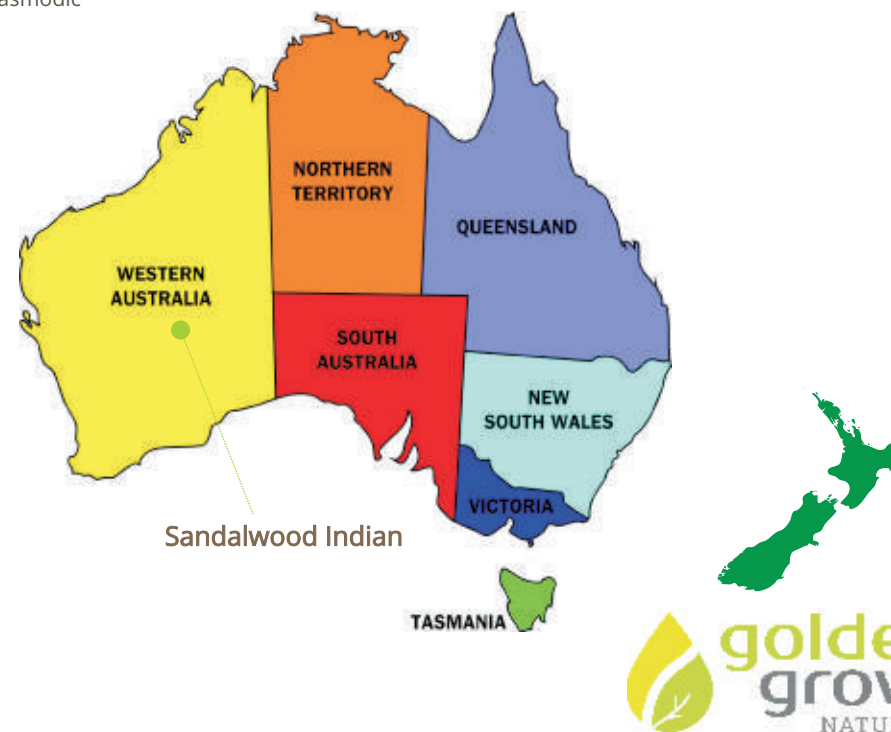
Sandalwood Oil Indian (Santalum album) is well known in the industry as it has been used in fragrances for generations. However it is more commonly known as being from India but after years of deforestation and no replanting, India as a source is no longer viable. Plantations have been established now for 20 years and finally we are seeing small volumes of oil emerge from this species in Australia. The Indian sandalwood plantations are in areas that are not typical of the traditional growing areas in India, but rather in tropical environments, which speeds up growth.

### PERFUMERY

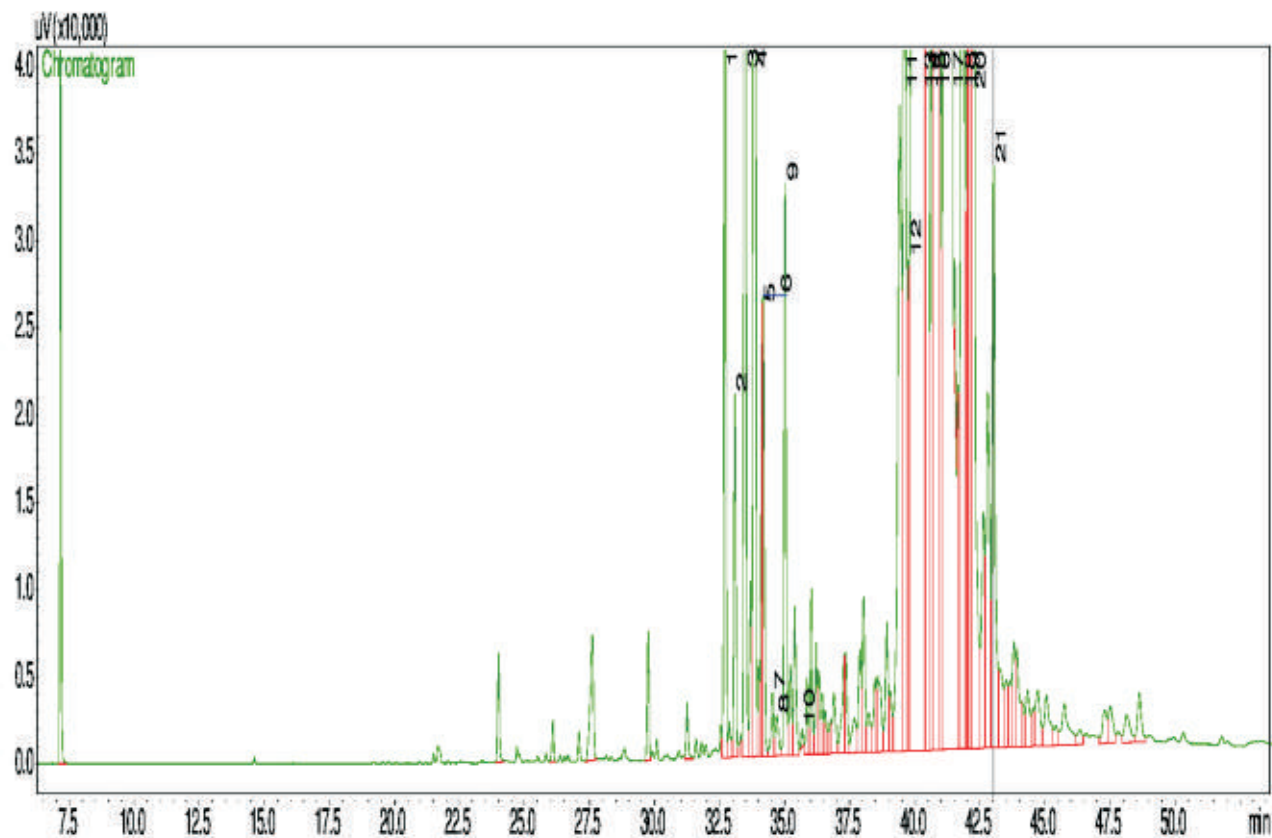
Classic oriental woody note,  
milky, soft, sturdy,  
rich, with a green top note and a satisfying lingering scent.

### AROMATHERAPY

Anti-viral  
Antiseptic  
Astringent  
Natural Aphrodisiac  
Memory Booster  
Anti-Inflammatory  
Anti-ageing  
Antispasmodic



## Typical GC Profile



| Peak # | Compound Name              | Area% | ACCEPTABLE RANGE |
|--------|----------------------------|-------|------------------|
| 1      | ALPHA-SANTALENE            | 0.70  |                  |
| 2      | TRANS-ALPHA-BERGAMOTENE    | 0.18  |                  |
| 3      | EPI-BETA-SANTALENE         | 0.97  |                  |
| 4      | BETA-SANTALENE             | 1.50  |                  |
| 5      | GAMMA-CURCUMENE            | 0.17  |                  |
| 6      | BETA-CURCUMENE             | 0.21  |                  |
| 7      | TRANS-BETA-BERGAMOTENE     | 0.04  |                  |
| 8      | ALPHA-ACORADIENE           | 0.05  |                  |
| 9      | ALPHA-CURCUMENE            | 0.29  |                  |
| 10     | TRANS-GAMMA-BISBOLENE      | 0.03  |                  |
| 11     | BETA-BISBOLENE             | 0.78  |                  |
| 12     | ALPHA-BISBOLENE            | 0.20  |                  |
| 13     | CIS-ALPHA-SANTALOL         | 51.77 | 41 – 55%         |
| 14     | CIS-TRANS-ALPHA-BERGAMOTOL | 3.75  |                  |
| 15     | TRANS-ALPHA-SANTALOL       | 0.57  |                  |
| 16     | CIS-EPI-BETA-SANTALOL      | 5.58  |                  |
| 17     | CIS-BETA-SANTALOL          | 22.82 | 16 – 24%         |
| 18     | TRANS-BETA-SANTALOL        | 1.88  |                  |
| 19     | CIS-BETA-CURCUMENE-12-OL   | 0.48  |                  |
| 20     | CIS-LANCEOL                | 2.38  |                  |
| 21     | SPIROSANTALOL              | 0.46  |                  |

## Notes

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | -                     |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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Revision: IFRA/2014/01

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| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

## Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 1542150-96-8  |
| EINECS #            | : 204-007-1   |
| Product Description | : Light golden and clear viscous liquid having slight nutty note to no odour. |
| Origin              | : This vegetable oil is obtained from nuts of plant Santalum spicatum.        |

### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Light golden and clear                                   |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : >100°C   |
| Refractive Index            | : 1.465 - 1.480 @20°C                                      |
| Relative Density            | : 0.910 - 0.930 @20°C                                      |
| Optical Rotation            | : No data available  |
| Solubility in Alcohol       | : No data available  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under proper storage conditions.               |
| Legislation                 | : Natural  |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Cosmetics & Fragrances                                   |

### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing.

### PACKING & STORAGE :

Should be stored in a cool, dry well ventilated places in fully tight sealed containers protected from light. Containers should be kept away from light and source of ignition.

### Notes

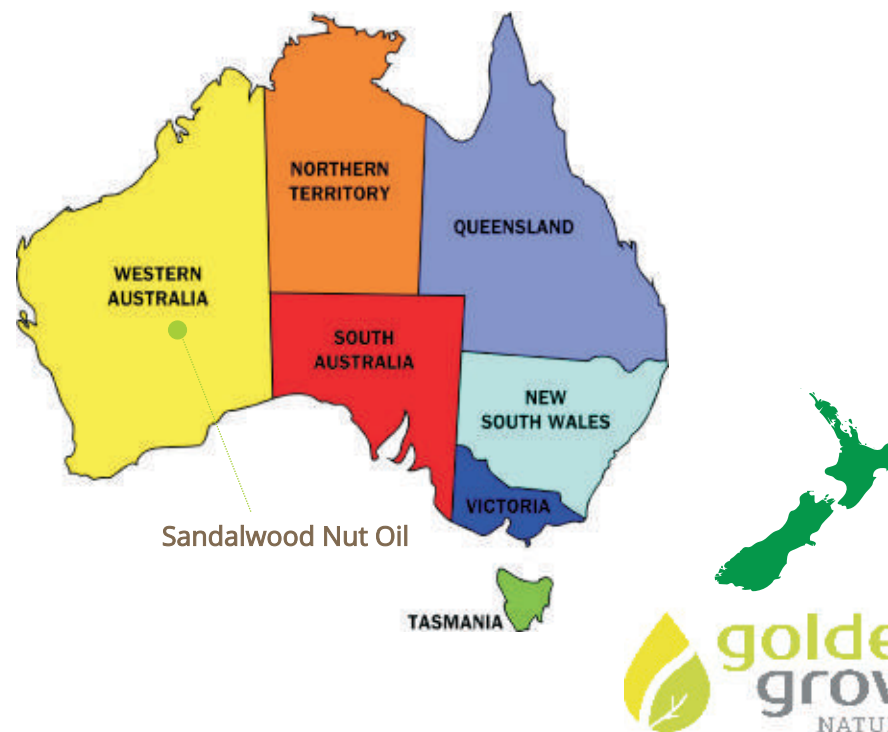
Derived from the sandalwood tree, Santalum spicatum (West Australian Sandalwood), Sandalwood nut oil is different from its wood oil. It is a terminal harvest product, the former can be harvested from its nuts throughout the tree's lifetime, starting at around 5 years of age. Its composition is also different primarily due to the presence of a unique component – the ximenynic acid (XA) at high concentration.

### PERFUMERY

Mild,  
woody base notes of green balsam beneath subtle,  
whimsical top notes of nutty goodness.

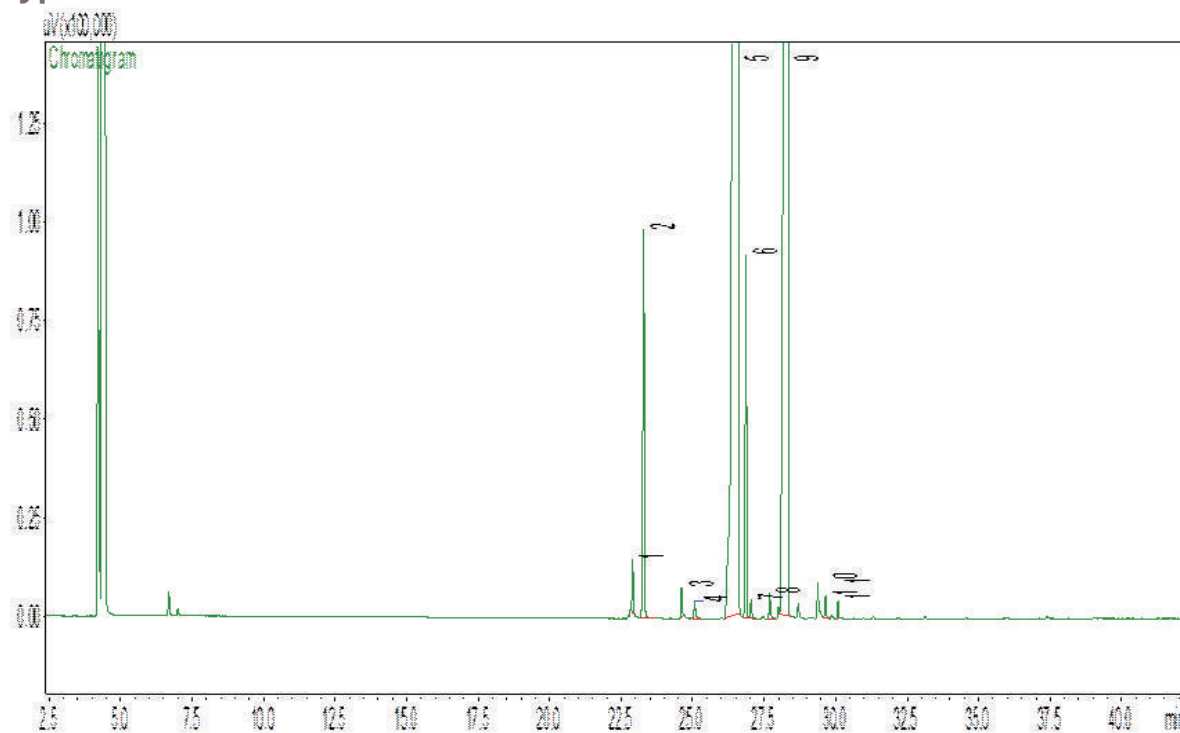
### AROMATHERAPY

Anti-Inflammatory  
Emmolient  
Cosmetic Ingredient  
Anti-ageing  
Soothing agent





## Typical GC Profile



| Peak # | Compound Name             | Area% | ACCEPTABLE RANGE |
|--------|---------------------------|-------|------------------|
| 1      | PALMETOLEIC ACID          | 0.52  | 0.50 – 1.00%     |
| 2      | PALMETIC ACID             | 3.72  | 3.00 – 3.75%     |
| 3      | CIS-10-HEPTADECENOIC ACID | 0.24  |                  |
| 4      | MARGERIC ACID             | 0.20  |                  |
| 5      | OLEIC ACID                | 55.10 | 47.0 – 57.0%     |
| 6      | STEARIC ACID              | 1.92  | 1.85 – 2.25%     |
| 7      | LINOLEIC ACID             | 1.50  | 1.15 – 1.55%     |
| 8      | ALPHA-LINOLEIC ACID       | 3.12  | 2.5 – 3.3%       |
| 9      | XIMENYNIC ACID            | 33.05 | 27.0 – 37.0%     |
| 10     | CIS-11-EICOSENOIC ACID    | 0.20  |                  |
| 11     | ARACHIDIC ACID            | 0.15  |                  |

## Notes

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients   | Total Contents (%w/w) |
|---|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                 | -                     |
| Amyl Cinnamal (122-40-7)  | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                    | -                     |
| Anise Alcohol (105-13-5)  | -                     |
| Benzyl Alcohol (100-51-6)   | -                     |
| Benzyl Benzoate (120-51-4)  | -                     |
| Benzyl Cinnamate (103-41-3)                                       | -                     |
| Benzyl Salicylate (118-58-1)                                      | -                     |
| Cinnamal (104-55-2)   | -                     |
| Cinnamyl Alcohol (104-54-1)                                       | -                     |
| Citral (5392-40-5)  | -                     |
| Citronellol (106-22-9)  | -                     |
| Coumarin (91-64-5)  | -                     |
| Limonene (5989-27-5)  | -                     |
| Eugenol (97-53-0)   | -                     |
| Farnesol (4602-84-0)  | -                     |
| Geraniol (106-24-1)   | -                     |
| Hexyl Cinnamal (101-86-0)   | -                     |
| Hydroxycitronellal (107-75-5)                                     | -                     |
| Isoeugenol (97-54-1)  | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                     | -                     |
| Linalool (78-70-6)  | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyrall)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                     | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)   | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)     | -                     |

**Disclaimer:** Golden Grove Naturals cannot be held liable for any loss or damage suffered by any person as a result of following or relying on the information disclosed. The use of this information is the responsibility of the user. When a batch is specified, the information disclosed is for this particular batch only and representative of products of the same code and description.

## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 183815-52-3   |
| EINECS #            | : 920-166-6   |
| Botanical Name      | : Tasmania lanceolata   |
| Product Description | : Dark citron green viscous liquid with characteristic odor                             |
| Origin              | : Obtained by the Non-chlorinated solvent extraction from leaves of Tasmania lanceolata |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Dark citron green  |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 136°C  |
| Refractive Index            | : 1.437-1.588 @20°C  |
| Relative Density            | : 0.943-1.042 @25°C  |
| Optical Rotation            | : Too dark   |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Perfumes & Fragrances                                    |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or faceshield and wear protective clothing.

#### PACKING & STORAGE:

Store at ambient temperature, dry and well-ventillated area,

#### NotesT

Tasmanian Native Pepper (Tasmania lanceolata) is a perennial shrub native to Tasmania. Large natural stands are found in the high, cool, moist areas of the State. These areas provide a reliable and sustainable source of leaf material for extraction.

#### PERFUMERY

Herbal

Green

Slightly spicy

Warm and woody

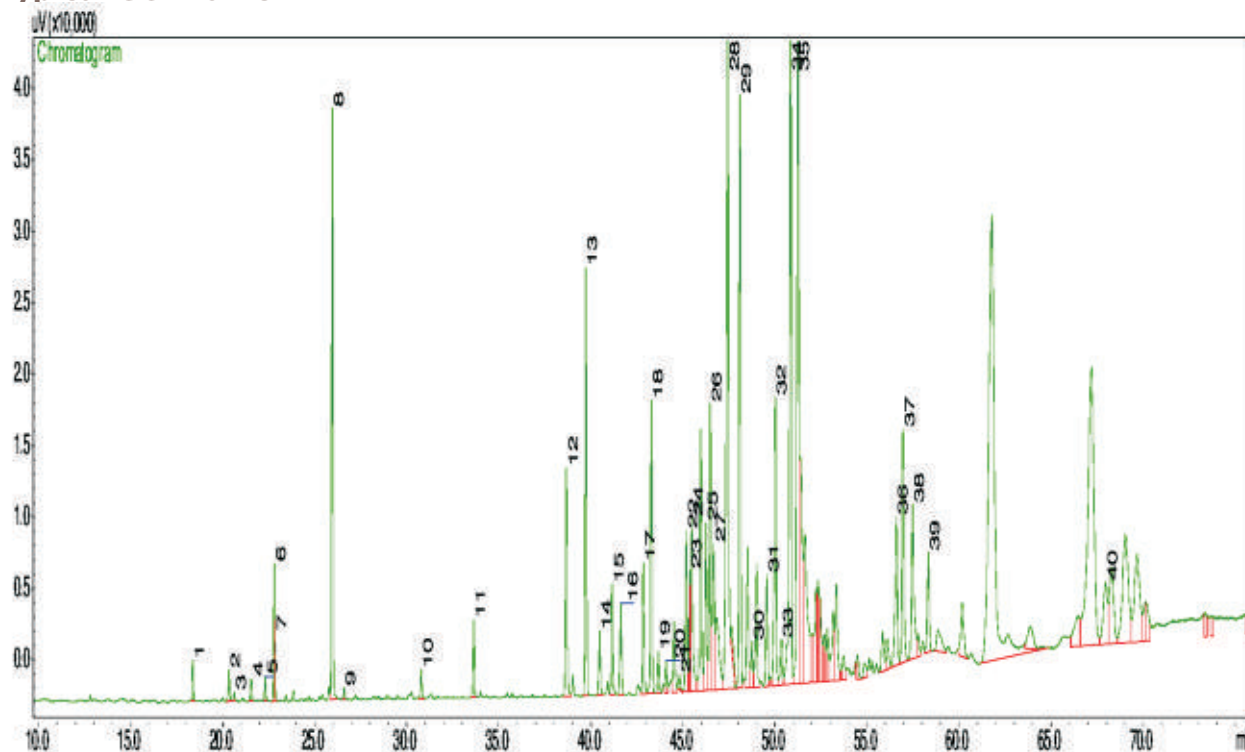
#### AROMATHERAPY

Therapeutic

Anti- inflammatory



### Typical GC Profile



| Peak# | Compound Name                  | Area% | ACCEPTABLE RANGE |
|-------|--------------------------------|-------|------------------|
| 1     | ALPHA-PINENE                   | 0.19  |                  |
| 2     | BETA-PINENE                    | 0.17  |                  |
| 3     | MYRCENE                        | 0.04  |                  |
| 4     | ALPHA-PHELLANDRENE             | 0.11  |                  |
| 5     | PARA-CYMENE                    | 0.11  |                  |
| 6     | LIMONENE + BETA-PHELLANDRENE   | 0.60  |                  |
| 7     | 1,8-CINEOL                     | 0.11  |                  |
| 8     | LINALOOL                       | 3.03  |                  |
| 9     | 3-METHYL-3-BUTENYL ISOVALERATE | 0.08  |                  |
| 10    | ALPHA-TERPINEOL                | 0.17  |                  |
| 11    | PIPRITONE                      | 0.47  |                  |
| 12    | EUGENOL                        | 1.49  |                  |
| 13    | ALPHA-CUBEENEN                 | 2.43  |                  |
| 14    | METHYL EUGENOL                 | 0.41  |                  |
| 15    | ALPHA-COPAENE                  | 0.69  |                  |
| 16    | BETA-ELEMENE                   | 0.58  |                  |
| 17    | ALPHA-GURJUNENE                | 0.83  |                  |
| 18    | TRANS-CARYOPHYLLENE            | 1.84  |                  |
| 19    | TRANS-ALPHA-BERGAMOTENE        | 0.27  |                  |
| 20    | TRANS-BETA-FARNESENE           | 0.20  |                  |
| 21    | ALPHA-HUMULENE                 | 0.10  |                  |
| 22    | ALOAROMADENDRENE               | 1.07  |                  |
| 23    | AR-CURCUMENE                   | 0.70  |                  |
| 24    | GAMMA-CURCUMENE                | 1.35  |                  |
| 25    | MYRISTICIN                     | 1.30  |                  |
| 26    | GERMACRENE D                   | 1.98  |                  |
| 27    | BICYCLOGERMACRENE D            | 1.13  |                  |
| 28    | CIS-CALAMENENE                 | 8.17  |                  |
| 29    | TRANS-CADINA-1,4-DIENE         | 3.84  |                  |
| 30    | NEROLIDOL                      | 0.32  |                  |
| 31    | METHOXY EUGENOL                | 0.80  |                  |
| 32    | SPATHULENOL                    | 2.29  |                  |
| 33    | CARYOPHYLLENE OXIDE            | 0.38  |                  |
| 34    | GUAJOL                         | 6.07  |                  |
| 35    | ISOSHIOBUNONE                  | 6.05  |                  |
| 36    | ISOCALAMENEDIOL                | 1.37  |                  |
| 37    | CYCLOCORENONE                  | 1.84  |                  |
| 38    | DRIMENOL                       | 1.57  |                  |
| 39    | CIS-5-HYDROXY CALAMENENE       | 0.81  |                  |
| 40    | POLYGODIAL                     | 1.08  |                  |

### Notes

### Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | ≤ 1.0%                |
| Eugenol (97-53-0)  | ≤ 2.5%                |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | ≤ 5.0%                |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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### IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 0.09%        |
| 2                                      | ≤ 0.09%        |
| 3.A                                    | ≤ 0.09%        |
| 3.B                                    | ≤ 0.09%        |
| 3.C                                    | ≤ 0.09%        |
| 3.D                                    | ≤ 0.09%        |
| 4.A                                    | ≤ 0.09%        |
| 4.B                                    | ≤ 0.09%        |
| 4.C                                    | ≤ 0.09%        |
| 4.D                                    | ≤ 0.09%        |
| 5                                      | ≤ 0.09%        |
| 6                                      | ≤ 0.09%        |
| 7.A                                    | ≤ 0.09%        |
| 7.B                                    | ≤ 0.09%        |
| 8.A                                    | ≤ 0.09%        |
| 8.B                                    | ≤ 0.09%        |
| 9.A                                    | ≤ 0.20%        |
| 9.B                                    | ≤ 0.20%        |
| 9.C                                    | ≤ 0.20%        |
| 10.A                                   | ≤ 0.20%        |
| 10.B                                   | ≤ 0.20%        |
| 11                                     | ≤ 2.00%        |

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### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 183815-52-3  |
| EINECS #            | : 920-166-6  |
| Botanical Name      | : Tasmania lanceolata  |
| Product Description | : Dark green semi-solid with characteristic odour.   |
| Origin              | : Obtained by the non chlorinated solvent extraction from the leaves of Tasmania lanceolata. |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Dark green   |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 140°C  |
| Refractive Index            | : 1.439-1.590 @20°C  |
| Relative Density            | : 0.944-1.005 @25°C  |
| Optical Rotation            | : Too dark   |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

#### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventillated area

#### Notes

Tasmanian Native Pepper (Tasmannia lanceolata) is a perennial shrub native to Tasmania. Large natural stands are found in the high, cool, moist areas of the State. These areas provide a reliable and sustainable source of leaf material for extraction.

#### PERFUMERY

Herbal  
Green  
Slightly spicy  
Warm and woody

#### AROMATHERAPY

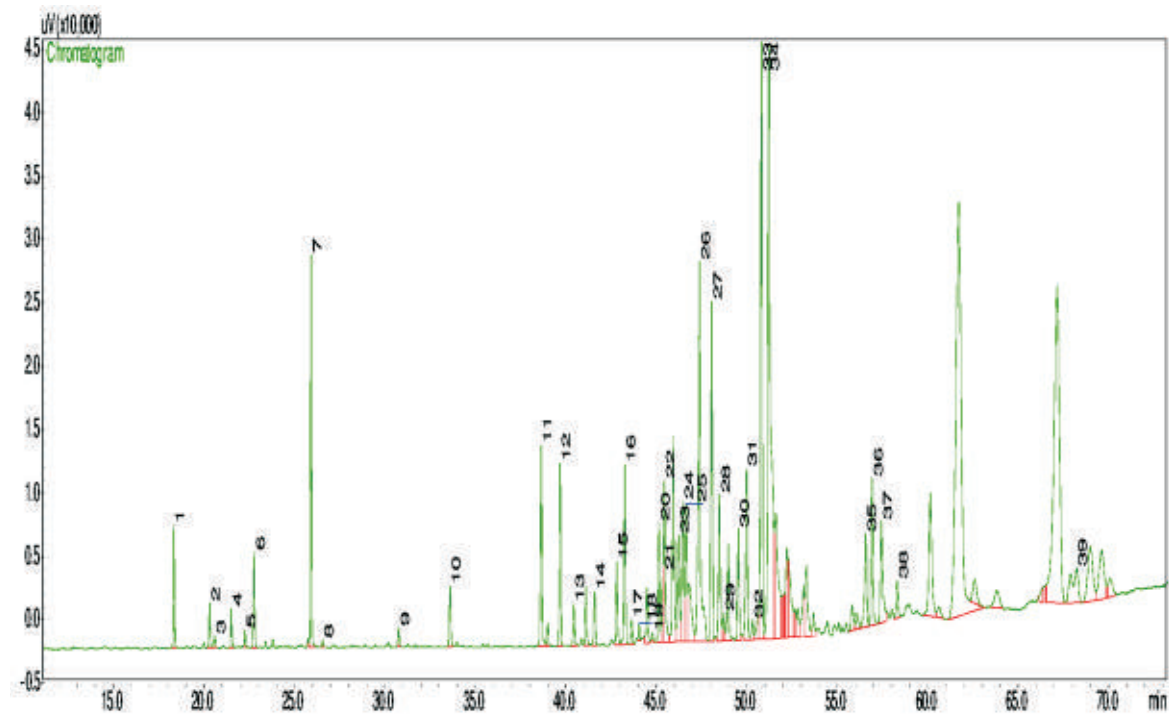
Therapeutic  
Anti- inflammatory



Tasmania Lanceolata Concrete



Typical GC Profile



| Peak# | Compound Name                  | Area% | ACCEPTABLE RANGE |
|-------|--------------------------------|-------|------------------|
| 1     | ALPHA-PINENE                   | 0.78  |                  |
| 2     | BETA-PINENE                    | 0.32  |                  |
| 3     | MYRCENE                        | 0.07  |                  |
| 4     | ALPHA-PHELLANDRENE             | 0.26  |                  |
| 5     | PARA-CYMENE                    | 0.10  |                  |
| 6     | LIMONENE                       | 0.69  |                  |
| 7     | LINALOOL                       | 2.72  |                  |
| 8     | 3-METHYL-3-BUTENYL ISOVALERATE | 0.04  |                  |
| 9     | ALPHA-TERPINEOL                | 0.13  |                  |
| 10    | PIPRITONE                      | 0.50  |                  |
| 11    | EUGENOL                        | 1.79  |                  |
| 12    | ALPHA-COPAENE                  | 1.42  |                  |
| 13    | METHYL EUGENOL                 | 0.37  |                  |
| 14    | BETA-ELEMENE                   | 0.46  |                  |
| 15    | ALPHA-GURJUNENE                | 0.73  |                  |
| 16    | TRANS-CARYOPHYLLENE            | 1.56  |                  |
| 17    | TRANS-ALPHA-BERGAMOTENE        | 0.22  |                  |
| 18    | TRANS-BETA-FARNESENE           | 0.11  |                  |
| 19    | ALPHA-HUMULENE                 | 0.06  |                  |
| 20    | ALLOAROMADENDRENE              | 1.05  |                  |
| 21    | AR-CURCUMENE                   | 0.06  |                  |
| 22    | GAMMA-CURCUMENE                | 2.05  |                  |
| 23    | MYRISTICIN                     | 1.17  |                  |
| 24    | GERMACRENE D                   | 1.35  |                  |
| 25    | BICYCLOGERMACRENE D            | 1.46  |                  |
| 26    | CIS-CALAMENENE                 | 4.94  |                  |
| 27    | TRANS-CADINA-1,4-DIENE         | 2.97  |                  |
| 28    | ELEMOL                         | 1.44  |                  |
| 29    | NEROLIDOL                      | 0.27  |                  |
| 30    | METHOXY EUGENOL                | 1.08  |                  |
| 31    | SPATHULENOL                    | 1.82  |                  |
| 32    | CARYOPHYLLENE OXIDE            | 0.24  |                  |
| 33    | GUAJOL                         | 6.31  |                  |
| 34    | ISOSHYOBUNONE                  | 9.38  |                  |
| 35    | ISOCALAMENEDIOL                | 1.11  |                  |
| 36    | CYCLOCOLORNONE                 | 1.56  |                  |
| 37    | DRIMENOL                       | 1.36  |                  |
| 38    | CIS-5-HYDROXY CALAMENENE       | 0.61  |                  |
| 39    | POLYGODIAL                     | 1.34  |                  |

Notes



Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients   | Total Contents (%w/w) |
|---|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                 | -                     |
| Amyl Cinnamal (122-40-7)  | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                    | -                     |
| Anise Alcohol (105-13-5)  | -                     |
| Benzyl Alcohol (100-51-6)   | -                     |
| Benzyl Benzoate (120-51-4)  | -                     |
| Benzyl Cinnamate (103-41-3)                                       | -                     |
| Benzyl Salicylate (118-58-1)                                      | -                     |
| Cinnamal (104-55-2)   | -                     |
| Cinnamyl Alcohol (104-54-1)                                       | -                     |
| Citral (5392-40-5)  | -                     |
| Citronellol (106-22-9)  | -                     |
| Coumarin (91-64-5)  | -                     |
| Limonene (5989-27-5)  | ≤ 1.5%                |
| Eugenol (97-53-0)   | ≤ 2.5%                |
| Farnesol (4602-84-0)  | -                     |
| Geraniol (106-24-1)   | -                     |
| Hexyl Cinnamal (101-86-0)   | -                     |
| Hydroxycitronellal (107-75-5)                                     | -                     |
| Isoeugenol (97-54-1)  | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                     | -                     |
| Linalool (78-70-6)  | ≤ 3.5%                |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyrall)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                     | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)   | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)     | -                     |

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IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 0.05%        |
| 2                                      | ≤0.05%         |
| 3.A                                    | ≤0.05%         |
| 3.B                                    | ≤0.05%         |
| 3.C                                    | ≤0.05%         |
| 3.D                                    | ≤0.05%         |
| 4.A                                    | ≤0.05%         |
| 4.B                                    | ≤0.05%         |
| 4.C                                    | ≤0.05%         |
| 4.D                                    | ≤0.05%         |
| 5                                      | ≤0.05%         |
| 6                                      | ≤0.05%         |
| 7.A                                    | ≤0.05%         |
| 7.B                                    | ≤0.05%         |
| 8.A                                    | ≤0.05%         |
| 8.B                                    | ≤0.05%         |
| 9.A                                    | ≤0.15%         |
| 9.B                                    | ≤0.15%         |
| 9.C                                    | ≤0.15%         |
| 10.A                                   | ≤0.15%         |
| 10.B                                   | ≤0.15%         |
| 11                                     | ≤1.50%         |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.



### Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 183815-52-3   |
| FEMA #              | : 4755  |
| EINECS #            | : 920-166-6   |
| Botanical Name      | : Tasmania lanceolata   |
| Product Description | : Yellow to dark brown liquid with characteristic odor.   |
| Origin              | : Obtained by the non chlorinated solvent extraction and refining of leaves of Tasmania lanceolata. |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Yellow to dark brown liquid                              |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 66°C   |
| Refractive Index            | : 1.433-1.584 @20°C  |
| Relative Density            | : 0.910-1.005 @25°C  |
| Optical Rotation            | : Too dark   |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

#### PACKING & STORAGE:

Store at ambient temperature, dry and well-ventillated area

#### Notes

Tasmanian Native Pepper (*Tasmannia lanceolata*) is a perennial shrub native to Tasmania. Large natural stands are found in the high, cool, moist areas of the State. These areas provide a reliable and sustainable source of leaf material for extraction.

#### PERFUMERY

Herbal  
Green  
Slightly spicy  
Warm and woody

#### AROMATHERAPY

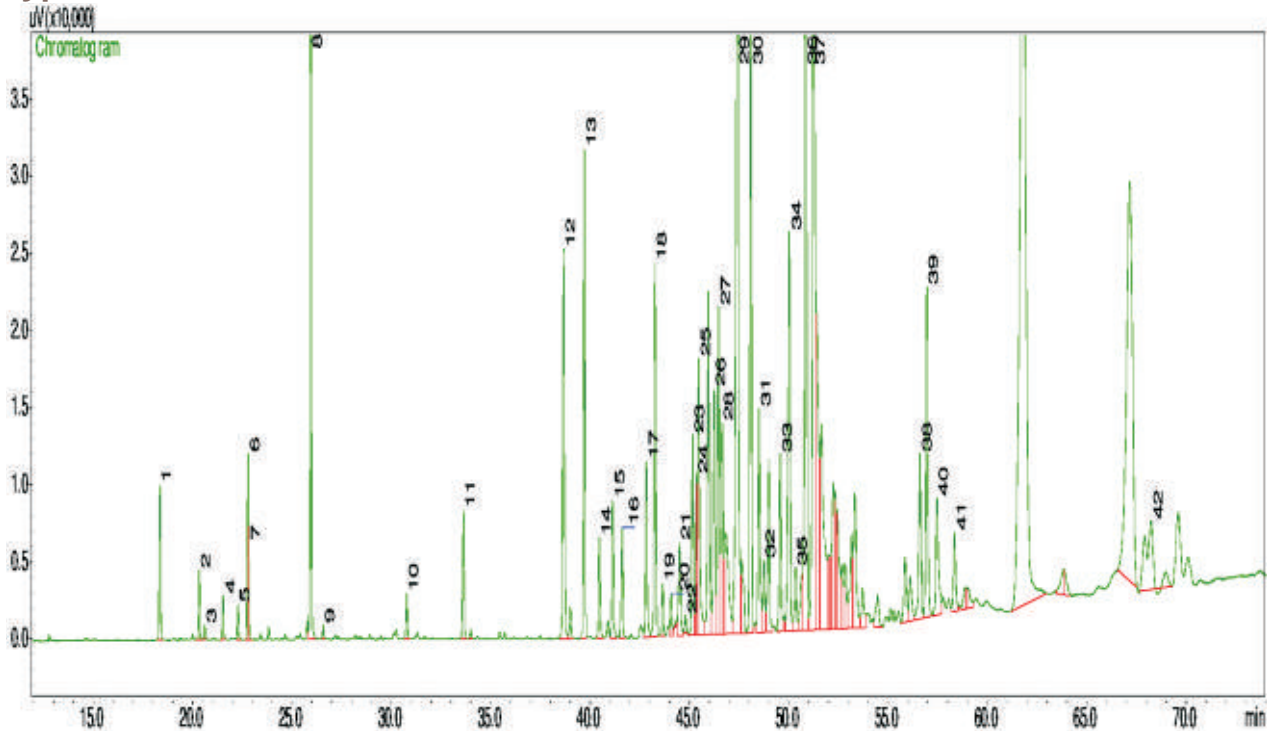
Therapeutic  
Anti- inflammatory



Tasmania Lanceolata Extract



Typical GC Profile



| Peak# | Compound Name                  | Area% | ACCEPTABLE RANGE |
|-------|--------------------------------|-------|------------------|
| 1     | ALPHA-PINENE                   | 0.63  |                  |
| 2     | BETA-PINENE                    | 0.31  |                  |
| 3     | CAMPHENE                       | 0.05  |                  |
| 4     | ALPHA-PHELLANDRENE             | 0.19  |                  |
| 5     | PARA-CYME                      | 0.16  |                  |
| 6     | LIMONENE + BETA-PHELLANDRENE   | 0.63  |                  |
| 7     | 1,8-CINEOL                     | 0.13  |                  |
| 8     | ALPHA-TERPINOLENE              | 4.00  |                  |
| 9     | 3-METHYL-3-BUTENYL ISOVALERATE | 0.06  |                  |
| 10    | ALPHA-TERPINEOL                | 0.24  |                  |
| 11    | PIPRITONE                      | 0.61  |                  |
| 12    | EUGENOL                        | 2.22  |                  |
| 13    | ALPHA-CUBEBENENE               | 2.45  |                  |
| 14    | METHYL EUGENOL                 | 0.56  |                  |
| 15    | ALPHA-COPAENE                  | 0.76  |                  |
| 16    | BETA-ELEMENE                   | 0.56  |                  |
| 17    | ALPHA-GURJUNENE                | 0.98  |                  |
| 18    | TRANS-CARYOPHYLLENE            | 2.05  |                  |
| 19    | TRANS-ALPHA-BERGAMOTENE        | 0.29  |                  |
| 20    | TRANS-BETA-FARNESENE           | 0.22  |                  |
| 21    | TRANS-MURROLA-3,5-DIENE        | 0.61  |                  |
| 22    | ALPHA-HUMULENE                 | 0.09  |                  |
| 23    | ALLOAROMADEDRENE               | 1.17  |                  |
| 24    | AR CURCUMENE                   | 0.74  |                  |
| 25    | GAMMA-CURCUMENE                | 1.85  |                  |
| 26    | MYRISTICIN                     | 1.62  |                  |
| 27    | GERMACRENE D                   | 1.84  |                  |
| 28    | BICYCLOGERMACRENE              | 1.41  |                  |
| 29    | CIC-CALAMENENE                 | 8.28  |                  |
| 30    | TRANS-CADINA-1,4-DIENE         | 3.70  |                  |
| 31    | ELEMOL                         | 1.46  |                  |
| 32    | NEROLIDOL                      | 0.43  |                  |
| 33    | METHOXY EUGENOL                | 1.10  |                  |
| 34    | SPATHULENOL                    | 2.81  |                  |
| 35    | CARYOPHYLLENE OXIDE            | 0.46  |                  |
| 36    | GUAIOL                         | 7.68  |                  |
| 37    | ISOSHYOBUNONE                  | 7.54  |                  |
| 38    | ISOCALAMENEDIOL                | 1.18  |                  |
| 39    | CYCLOCLORENONE                 | 2.19  |                  |
| 40    | DRIMENOL                       | 1.03  |                  |
| 41    | CIS-5-HYDROXY CALAMENENE       | 0.58  |                  |
| 42    | POLYGOLDIAL                    | 1.60  |                  |

Notes





### Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | -                     |
| Eugenol (97-53-0)  | ≤ 3.5%                |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lylal)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

**Disclaimer:** Golden Grove Naturals cannot be held liable for any loss or damage suffered by any person as a result of following of relying on the information disclosed. The use of this information is the responsibility of the user. When a batch is specified, the information disclosed is for this particular batch only and representative of products of the same code and description.

### IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 0.05%        |
| 2                                      | ≤ 0.05%        |
| 3.A                                    | ≤ 0.05%        |
| 3.B                                    | ≤ 0.05%        |
| 3.C                                    | ≤ 0.05%        |
| 3.D                                    | ≤ 0.05%        |
| 4.A                                    | ≤ 0.05%        |
| 4.B                                    | ≤ 0.05%        |
| 4.C                                    | ≤ 0.05%        |
| 4.D                                    | ≤ 0.05%        |
| 5                                      | ≤ 0.05%        |
| 6                                      | ≤ 0.05%        |
| 7.A                                    | ≤ 0.05%        |
| 7.B                                    | ≤ 0.05%        |
| 8.A                                    | ≤ 0.05%        |
| 8.B                                    | ≤ 0.05%        |
| 9.A                                    | ≤ 0.15%        |
| 9.B                                    | ≤ 0.15%        |
| 9.C                                    | ≤ 0.15%        |
| 10.A                                   | ≤ 0.15%        |
| 10.B                                   | ≤ 0.15%        |
| 11                                     | ≤ 1.50%        |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 8006-90-4  |
| FEMA #              | : 2848   |
| EINECS #            | : 282-015-4  |
| Botanical Name      | : Mentha piperita  |
| Product Description | : Colourless to pale yellow liquid having characteristic odor.                 |
| Origin              | : Obtained by the steam distillation of above ground parts of Mentha piperita. |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Colourless to pale yellow                                |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 74°C   |
| Refractive Index            | : 1.387-1.533 @20°C  |
| Relative Density            | : 0.855-0.945 @25°C  |
| Optical Rotation            | : N/A  |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under proper storage conditions.               |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or faceshield and wear protective clothing

#### PACKING & STORAGE:

Store at ambient temperature, dry and well-ventillated area,

#### Notes

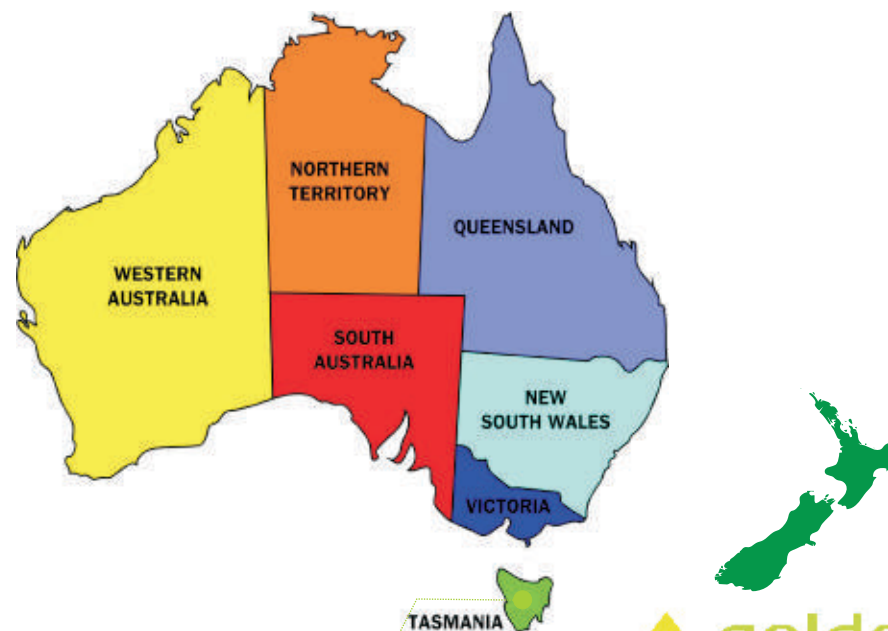
Peppermint Oil, Mentha piperita, was one of the first essential oils produced in Tasmania in the late 1970's, using the prized Black Mitcham cultivar, renowned for its rich, complex flavour and aroma.

#### PERFUMERY

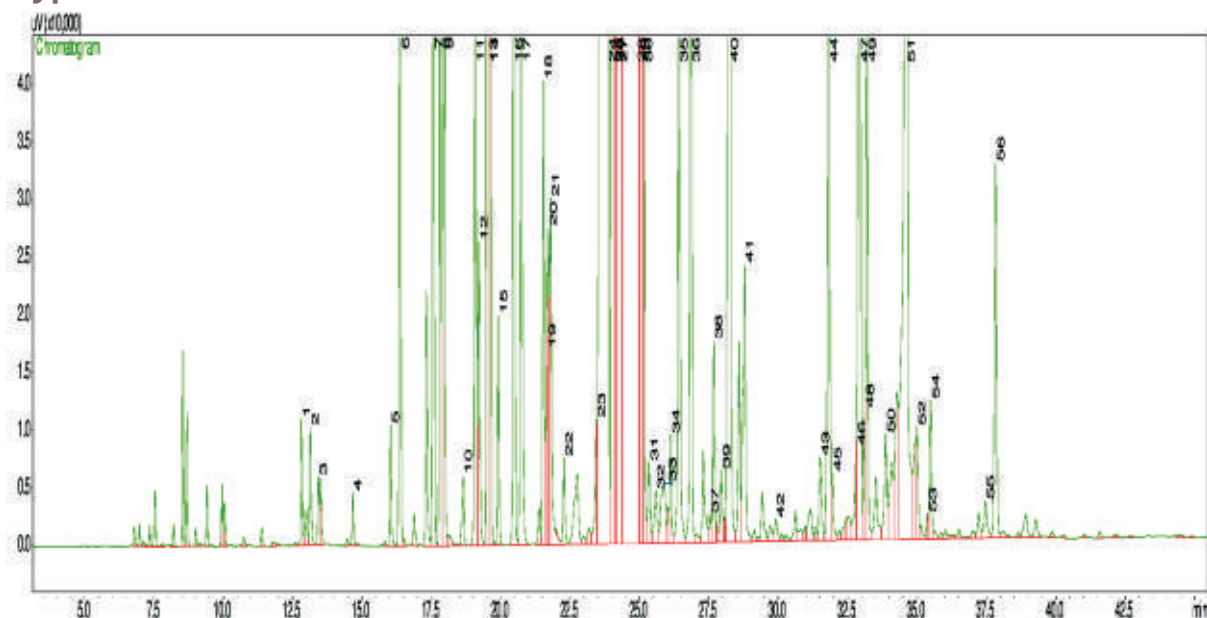
Minty  
Cool  
Fresh

#### AROMATHERAPY

Therapeutic  
Anti- inflammatory



### Typical GC Profile



| Peak# | Compound Name                    | Area% | ACCEPTABLE RANGE |
|-------|----------------------------------|-------|------------------|
| 1     | CIS-2-HEXENAL                    | 0.05  |                  |
| 2     | S-3-HEXENOL                      | 0.05  |                  |
| 3     | HEXANOL                          | 0.03  |                  |
| 4     | 2,5-DIETHYL TETRAHYDROFURAN      | 0.02  |                  |
| 5     | ALPHA-THUJENE                    | 0.05  |                  |
| 6     | ALPHA-PINENE                     | 0.63  |                  |
| 7     | SABINENE                         | 0.37  |                  |
| 8     | BETA-PINENE                      | 0.92  |                  |
| 9     | MYRCENE                          | 0.35  |                  |
| 10    | ALPHA-PHELLANDRENE               | 0.04  |                  |
| 11    | ALPHA-TERPINENE                  | 0.39  |                  |
| 12    | PARA-CYMENTHENE                  | 0.16  |                  |
| 13    | LIMONENE                         | 1.44  |                  |
| 14    | 1,8-CINEOL                       | 5.90  |                  |
| 15    | CIS-BETA-OCIMENE                 | 0.09  |                  |
| 16    | GAMMA-TERPINENE                  | 0.66  |                  |
| 17    | TRANS-SABINENE HYDRATE           | 0.51  |                  |
| 18    | ALPHA-TERPINOLENE                | 0.21  |                  |
| 19    | LINALOOL                         | 0.05  |                  |
| 20    | 3-METHYL BUTYL-2-METHYL BUTYRATE | 0.15  |                  |
| 21    | 2-METHYL BUTYL ISOVALERALDEHYDE  | 0.19  |                  |
| 22    | 3-OCTYL ACETATE                  | 0.04  |                  |
| 23    | ISOPULEGOL                       | 0.07  |                  |
| 24    | MENTHONE                         | 22.12 |                  |
| 25    | ISOMENTHONE                      | 3.22  |                  |
| 26    | MENTHAFURAN                      | 1.63  |                  |
| 27    | NEOMENTHOL                       | 2.85  |                  |
| 28    | MENTHOL                          | 47.10 |                  |
| 29    | ISOMENTHOL                       | 0.69  |                  |
| 30    | ALPHA-TERPINEOL                  | 0.32  |                  |
| 31    | TRANS-PIPRITOL                   | 0.05  |                  |
| 32    | CIS-PIPRITOL                     | 0.04  |                  |
| 33    | CITRONELLOL                      | 0.07  |                  |
| 34    | CIS-3-HEXENYL ISOVALERATE        | 0.05  |                  |
| 35    | PULEGONE                         | 0.41  |                  |
| 36    | PIPRITONE                        | 0.44  |                  |
| 37    | ISOPULEGYL ACETATE               | 0.02  |                  |
| 38    | NEOMENTHYL ACETATE               | 0.10  |                  |
| 39    | THYMOL                           | 0.04  |                  |
| 40    | MENTHYL ACETATE                  | 2.64  |                  |
| 41    | ISOMENTHYL ACETATE               | 0.19  |                  |
| 42    | EUGENOL                          | 0.02  |                  |
| 43    | ALPHA-COPAENE                    | 0.06  |                  |
| 44    | BETA-BOURBONENE                  | 0.46  |                  |
| 45    | ALPHA-BOURBONENE                 | 0.03  |                  |
| 46    | BETA-CUBEBENENE                  | 0.05  |                  |
| 47    | BETA-CARYOPHYLLENE               | 1.33  |                  |
| 48    | BETA-COPAENE                     | 0.05  |                  |
| 49    | TRANS-BETA-FARNESENE             | 0.27  |                  |
| 50    | ALPHA-HUMULENE                   | 0.08  |                  |
| 51    | GERMACRENE D                     | 1.33  |                  |
| 52    | BICYCLOGERMACRENE                | 0.06  |                  |
| 53    | GAMMA-CADINENE                   | 0.02  |                  |
| 54    | DELTA-CADINENE                   | 0.07  |                  |
| 55    | CARYOPHYLLENE OXIDE              | 0.03  |                  |

### Notes

### Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | ≤ 0.5%                |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | ≤ 2.5%                |
| Eugenol (97-53-0)  | ≤ 0.1%                |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | ≤ 0.5%                |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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### IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 5%           |
| 2                                      | ≤5%            |
| 3.A                                    | ≤5%            |
| 3.B                                    | ≤5%            |
| 3.C                                    | ≤5%            |
| 3.D                                    | ≤5%            |
| 4.A                                    | ≤5%            |
| 4.B                                    | ≤5%            |
| 4.C                                    | ≤5%            |
| 4.D                                    | ≤5%            |
| 5                                      | ≤5%            |
| 6                                      | ≤5%            |
| 7.A                                    | ≤5%            |
| 7.B                                    | ≤5%            |
| 8.A                                    | ≤5%            |
| 8.B                                    | ≤5%            |
| 9.A                                    | ≤5%            |
| 9.B                                    | ≤5%            |
| 9.C                                    | ≤5%            |
| 10.A                                   | ≤5%            |
| 10.B                                   | ≤5%            |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 8006-84-6   |
| EINECS #            | : 283-414-6   |
| FEMA #              | : 2482  |
| Botanical Name      | : Foeniculum vulgare  |
| Product Description | : Colourless to pale yellow liquid with characteristic odour.                               |
| Origin              | : Obtained by steam distillation & fractionation of mature seeding plant Foeniculum vulgare |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Colourless to pale yellow                                |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 63°C   |
| Refractive Index            | : 1.472-1.627 @20°C  |
| Relative Density            | : 0.930-1.027 @25°C  |
| Optical Rotation            | : N/A  |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Legislation                 | : Natural  |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

#### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventillated area,

#### Notes

Fennel is well suited to the Tasmanian climate; growing strongly in spring and accumulating oil under the mild, sunny days of summer and early autumn. Its is used in a wide range of food flavouring and beverage products. Fennel oil produced with a range of compositions, and can tailor a product to suit your needs.

#### PERFUMERY

Sweet  
Earthy aroma  
Aniseed

#### AROMATHERAPY

Anti-Inflammatory  
Emmolient  
Cosmetic Ingredient  
Anti-ageing  
Soothing agent

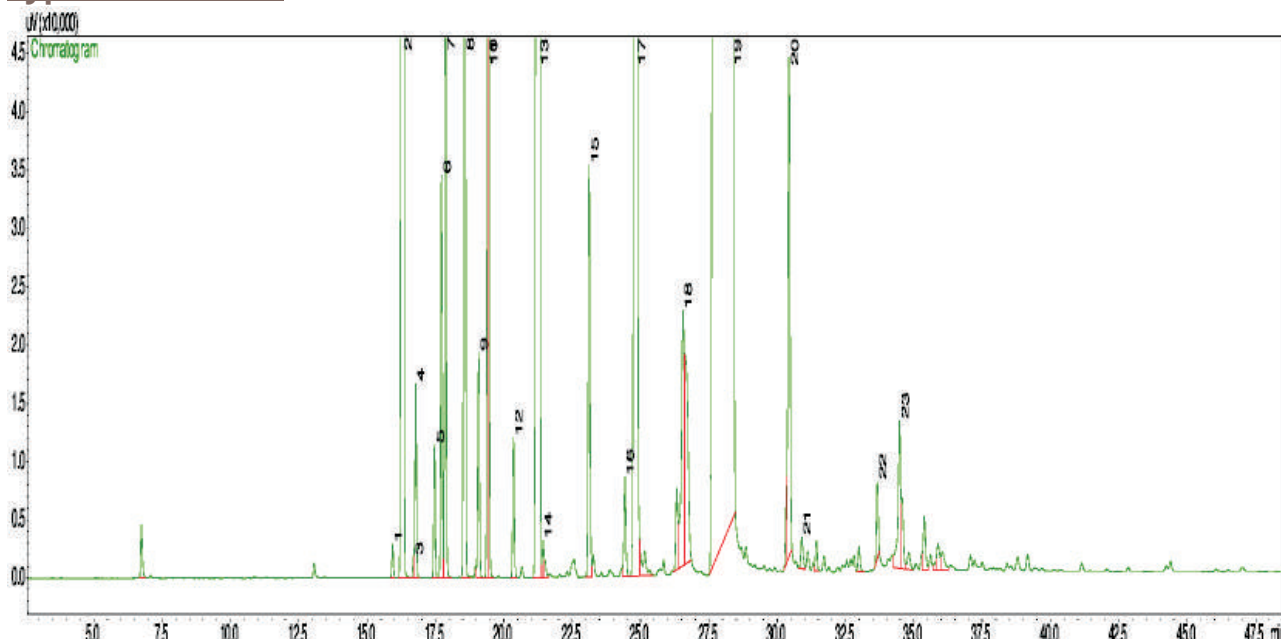


Fennel Oil Sweet





## Typical GC Profile



| Peak# | Compound Name                  | Area% | ACCEPTABLE RANGE |
|-------|--------------------------------|-------|------------------|
| 1     | ALPHA-THUJENE                  | 0.01  |                  |
| 2     | ALPHA-PINENE                   | 3.00  |                  |
| 3     | ALPHA-FENCHENE                 | 0.01  |                  |
| 4     | CAMPHENE                       | 0.07  |                  |
| 5     | SABINENE                       | 0.05  |                  |
| 6     | BETA-PINENE                    | 0.15  |                  |
| 7     | MYRCENE                        | 0.24  |                  |
| 8     | ALPHA-PHELLANDRENE             | 0.70  |                  |
| 9     | PARA-CYMENE                    | 0.09  |                  |
| 10    | LIMONENE                       | 0.39  |                  |
| 11    | BETA-PHELLANDRENE + 1,8-CINEOL | 0.12  |                  |
| 12    | GAMMA-TERPINENE                | 0.05  |                  |
| 13    | FENCHENE                       | 4.08  |                  |
| 14    | ALPHA-TERPINOLENE              | 0.01  |                  |
| 15    | CAMPHOR                        | 0.17  |                  |
| 16    | TERPINEN-4-OL                  | 0.05  |                  |
| 17    | METHYL CHAVICOL                | 2.75  |                  |
| 18    | CIS-ANETHOLE                   | 0.17  |                  |
| 19    | TRANS-ANETHOLE                 | 87.10 |                  |
| 20    | METHYL EUGENOL                 | 0.23  |                  |
| 21    | ALPHA-COPAENE                  | 0.02  |                  |
| 22    | METHYL ISOEUGENOL              | 0.03  |                  |
| 23    | GERMACRENE D                   | 0.09  |                  |

## Notes

### Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

#### Ingredients

#### Total Contents (%w/w)

|  |   |
|--|---|
| Alpha-Isomethyl Ionone (127-51-5)                                | - |
| Amyl Cinnamal (122-40-7)   | - |
| Amylcinnamyl Alcohol(101-85-9)                                   | - |
| Anise Alcohol (105-13-5)   | - |
| Benzyl Alcohol (100-51-6)  | - |
| Benzyl Benzoate (120-51-4)                                       | - |
| Benzyl Cinnamate (103-41-3)                                      | - |
| Benzyl Salicylate (118-58-1)                                     | - |
| Cinnamal (104-55-2)  | - |
| Cinnamyl Alcohol (104-54-1)                                      | - |
| Citral (5392-40-5)   | - |
| Citronellol (106-22-9)   | - |
| Coumarin (91-64-5)   | - |
| Limonene (5989-27-5)   | - |
| Eugenol (97-53-0)  | - |
| Farnesol (4602-84-0)   | - |
| Geraniol (106-24-1)  | - |
| Hexyl Cinnamal (101-86-0)  | - |
| Hydroxycitronellal (107-75-5)                                    | - |
| Isoeugenol (97-54-1)   | - |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | - |
| Linalool (78-70-6)   | - |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lylal)(31906-04-4) | - |
| Methyl 2-Octynoate (111-12-6)                                    | - |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | - |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | - |

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Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 5%           |
| 2                                      | ≤5%            |
| 3.A                                    | ≤5%            |
| 3.B                                    | ≤5%            |
| 3.C                                    | ≤5%            |
| 3.D                                    | ≤5%            |
| 4.A                                    | ≤5%            |
| 4.B                                    | ≤5%            |
| 4.C                                    | ≤5%            |
| 4.D                                    | ≤5%            |
| 5                                      | ≤5%            |
| 6                                      | ≤5%            |
| 7.A                                    | ≤5%            |
| 7.B                                    | ≤5%            |
| 8.A                                    | ≤5%            |
| 8.B                                    | ≤5%            |
| 9.A                                    | ≤5%            |
| 9.B                                    | ≤5%            |
| 9.C                                    | ≤5%            |
| 10.A                                   | ≤5%            |
| 10.B                                   | ≤5%            |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 8006-84-6  |
| FEMA #              | : 2482   |
| EINECS #            | : 283-414-6  |
| Botanical Name      | : Foeniculum vulgare   |
| Product Description | : Colorless to pale yellow liquid with characteristic odor.                          |
| Origin              | : Obtained by the steam distillation of mature seedling plant of Foeniculum vulgare. |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Colourless to pale yellowLight golden and clear          |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 55°C   |
| Refractive Index            | : 1.396-1.543 @20°C  |
| Relative Density            | : 0.885-0.978 @25°C  |
| Optical Rotation            | : N/A  |
| Solubility in Alcohol       | : Soluble in 95% ethanol                                   |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Legislation                 | : Natural  |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

#### PACKING & STORAGE:

Store at ambient temperature, dry and well-ventillated area,.

#### Notes

This bitter tasting product is produced by rectification from whole oil, and is perfect for a range of applications in food, oral care and perfumery.

#### PERFUMERY

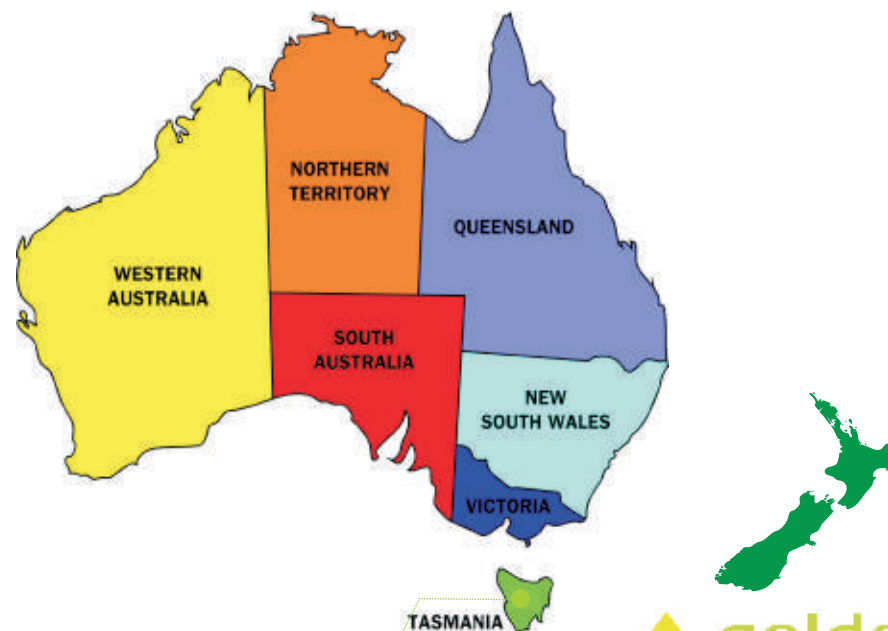
Aniseed aroma

Bitter Fenchone

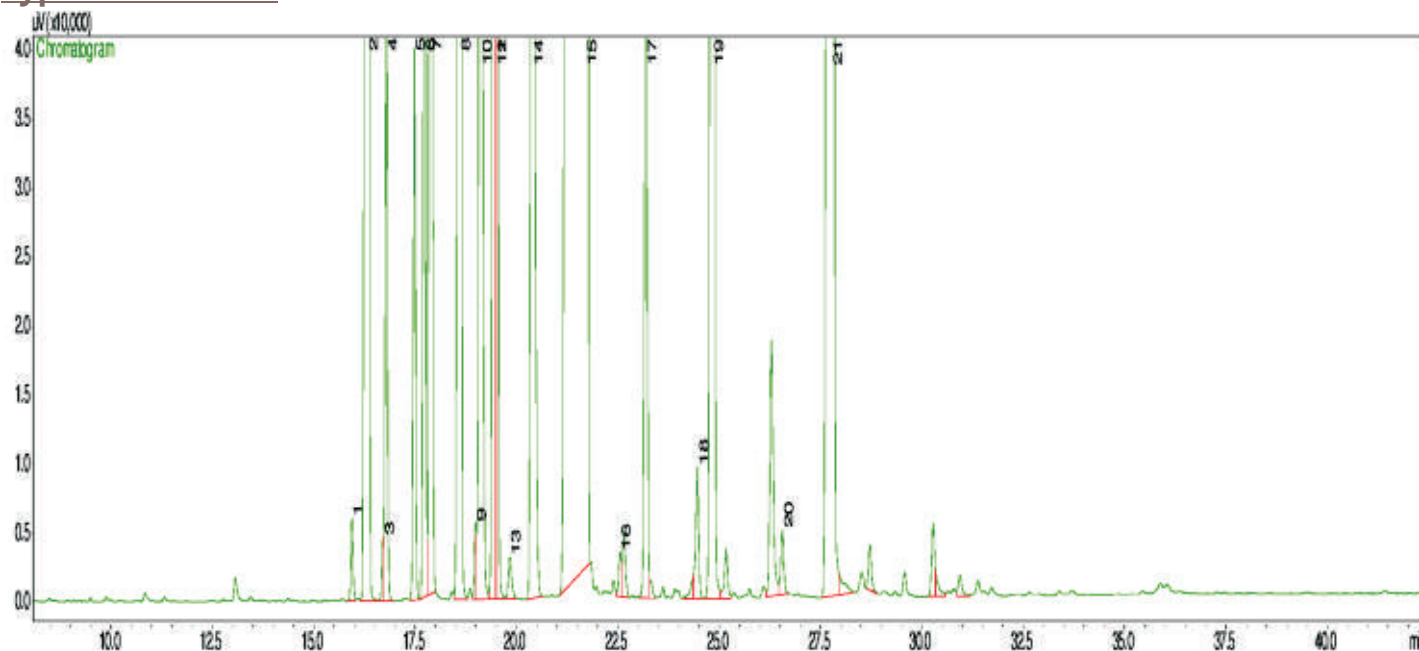
#### AROMATHERAPY

Antiseptic

Anti-inflammatory



### Typical GC Profile



| Peak# | Compound Name                  | Area% | ACCEPTABLE RANGE |
|-------|--------------------------------|-------|------------------|
| 1     | ALPHA-THUIENE                  | 0.03  |                  |
| 2     | ALPHA-PINENE                   | 4.93  |                  |
| 3     | FENCHENE                       | 0.01  |                  |
| 4     | CAMPHENE                       | 0.19  |                  |
| 5     | SABINENE                       | 0.18  |                  |
| 6     | BETA-PINENE                    | 0.36  |                  |
| 7     | MYRCENE                        | 1.23  |                  |
| 8     | ALPHA-PHELLANDRENE             | 2.51  |                  |
| 9     | ALPHA-TERPINENE                | 0.02  |                  |
| 10    | PARA-CYMENE                    | 0.86  |                  |
| 11    | LIMONENE                       | 2.62  |                  |
| 12    | BETA-PHELLANDRENE + 1,8-CINEOL | 1.54  |                  |
| 13    | CIS-BETA-OCIMENE               | 0.02  |                  |
| 14    | GAMMA-TERPINENE                | 1.02  |                  |
| 15    | FENCHONE                       | 76.81 |                  |
| 16    | FENCHOL                        | 0.02  |                  |
| 17    | CAMPHOR                        | 0.33  |                  |
| 18    | TERPINEN-4-OL                  | 0.06  |                  |
| 19    | METHYL CHAVICOL                | 1.82  |                  |
| 20    | CIS-ANETHOL                    | 0.03  |                  |
| 21    | TRANS-ANETHOLE                 | 5.12  |                  |

### Notes

### Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | -                     |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lylal)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

**Disclaimer:** Golden Grove Naturals cannot be held liable for any loss or damage suffered by any person as a result of following or relying on the information disclosed. The use of this information is the responsibility of the user. When a batch is specified, the information disclosed is for this particular batch only and representative of products of the same code and description.

### IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 5%           |
| 2                                      | ≤5%            |
| 3.A                                    | ≤5%            |
| 3.B                                    | ≤5%            |
| 3.C                                    | ≤5%            |
| 3.D                                    | ≤5%            |
| 4.A                                    | ≤5%            |
| 4.B                                    | ≤5%            |
| 4.C                                    | ≤5%            |
| 4.D                                    | ≤5%            |
| 5                                      | ≤5%            |
| 6                                      | ≤5%            |
| 7.A                                    | ≤5%            |
| 7.B                                    | ≤5%            |
| 8.A                                    | ≤5%            |
| 8.B                                    | ≤5%            |
| 9.A                                    | ≤5%            |
| 9.B                                    | ≤5%            |
| 9.C                                    | ≤5%            |
| 10.A                                   | ≤5%            |
| 10.B                                   | ≤5%            |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

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### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 8000-68-8  |
| EINECS #            | : 281-677-1  |
| FEMA #              | : 2836   |
| Botanical Name      | : Petroselinum crispum   |
| Product Description | : Colourless to pale yellow liquid with characteristic odour.                                |
| Origin              | : Obtained by the steam distillation from the freshly chopped plant of Petroselinum crispum. |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Colourless to pale yellow                                |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 52°C   |
| Refractive Index            | : 1.435-1.586 @20°C  |
| Relative Density            | : 0.882-0.975 @25°C  |
| Optical Rotation            | : N/A  |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or faceshield and wear protective clothing

#### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventillated area,.

#### Notes

Tasmanian Parsley Herb Oil - Petroselinum crispum - or Triple Curled Parsley. This essential oil is sustainability grown and harvested on farms in the cool pristine environment of North-Eastern Tasmania. The parsley leaves are steam distilled, producing an herbaceous odour of 'newly cut grass'. Pale yellow in colour.

#### PERFUMERY

Clean complex notes

Freshcut Parsley

#### AROMATHERAPY

Anti-inflammatory

Antimicrobial

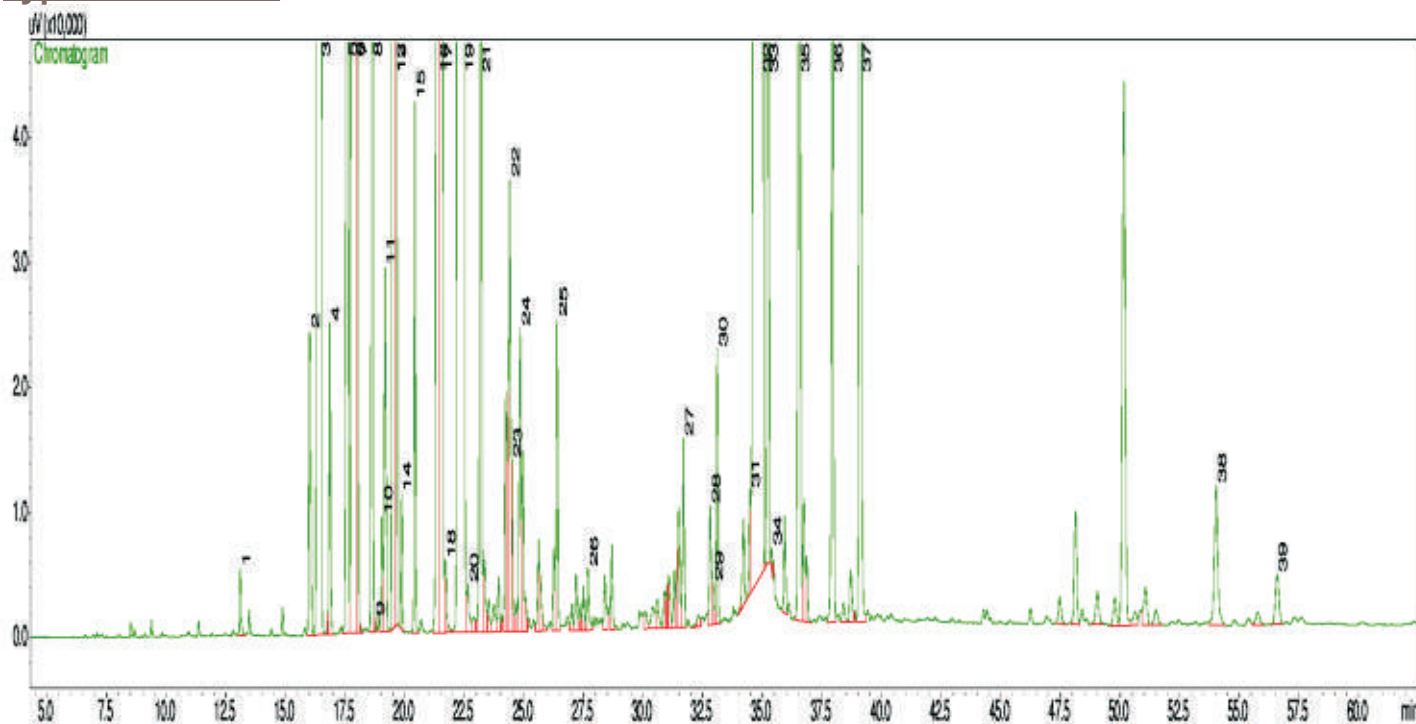
Astringent properties



Parsley Herb Oil



## Typical GC Profile



| Peak# | Compound Name               | Area% | ACCEPTABLE RANGE |
|-------|-----------------------------|-------|------------------|
| 1     | CIS-3-HEXENOL               | 0.03  |                  |
| 2     | ALPHA-THUJENE               | 0.15  |                  |
| 3     | ALPHA-PINENE                | 18.56 | 16 – 23%         |
| 4     | CAMPHENE                    | 0.11  |                  |
| 5     | SABINENE                    | 0.58  | 0.1 – 1%         |
| 6     | BETA-PINENE                 | 13.08 | 10 – 15%         |
| 7     | MYRCENE                     | 4.36  | 2 – 5%           |
| 8     | ALPHA-PHELLANDRENE          | 0.74  | 0.1 – 1%         |
| 9     | DELTA-3-CARENE              | 0.01  |                  |
| 10    | ALPHA-TERPINENE             | 0.04  |                  |
| 11    | PARA-CYME                   | 0.18  | 0.1 – 1%         |
| 12    | LIMONENE                    | 2.58  | 1 – 3%           |
| 13    | BETA-PHELLANDRENE           | 6.90  | 5 – 9%           |
| 14    | TRANS-BETA-OCIMENE          | 0.05  |                  |
| 15    | GAMMA-TERPINENE             | 0.19  |                  |
| 16    | ALPHA-PARA-DIMETHYL STYRENE | 2.78  | 1 – 3%           |
| 17    | ALPHA-TERPINOLENE           | 2.63  | 1 – 3%           |
| 18    | LINALOOL                    | 0.03  |                  |
| 19    | 1,3,8-PARA-MENTHATRIENE     | 22.86 | 18 – 25%         |
| 20    | CIS-PARA-MENTH-2-ENE-1-OL   | 0.03  |                  |
| 21    | 1,5,8-PARA-MENTHATRIENE     | 1.05  |                  |
| 22    | PARA-CYME-8-OL              | 0.21  |                  |
| 23    | TERPIENE-4-OL               | 0.06  |                  |
| 24    | ALPHA-TERPINEOL             | 0.14  |                  |
| 25    | CARVACROL                   | 0.13  |                  |
| 26    | METHYL CHAVICOL             | 0.03  |                  |
| 27    | BETA-ELEMENE                | 0.08  |                  |
| 28    | BETA-CARYOPHYLLENE          | 0.07  |                  |
| 29    | TRANS-ALPHA-BERGAMOTENE     | 0.02  |                  |
| 30    | TRANS-BETA-FARNESENE        | 0.11  |                  |
| 31    | GERMACRENE D                | 0.05  |                  |
| 32    | MYRISTICIN                  | 17.52 | 17 – 25%         |
| 33    | ELEMICIN                    | 0.42  | 0.1 – 2%         |
| 34    | DELTA-CADINENE              | 0.01  |                  |
| 35    | TETRAMETHOXY ALLYL BENZENE  | 1.12  | 1 – 3%           |
| 36    | CARATOL                     | 0.49  | 0.1 – 1%         |
| 37    | APIOLE                      | 0.73  | 0.1 – 2%         |
| 38    | MENTHATRIENE DIMER I        | 0.12  | 0.1 – 2%         |
| 39    | MENTHATRIENE DIMER II       | 0.05  | 0.01 – 1%        |

## Notes

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients  | Total Contents (%w/w) |
|--|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                | -                     |
| Amyl Cinnamal (122-40-7)   | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                   | -                     |
| Anise Alcohol (105-13-5)   | -                     |
| Benzyl Alcohol (100-51-6)  | -                     |
| Benzyl Benzoate (120-51-4)                                       | -                     |
| Benzyl Cinnamate (103-41-3)                                      | -                     |
| Benzyl Salicylate (118-58-1)                                     | -                     |
| Cinnamal (104-55-2)  | -                     |
| Cinnamyl Alcohol (104-54-1)                                      | -                     |
| Citral (5392-40-5)   | -                     |
| Citronellol (106-22-9)   | -                     |
| Coumarin (91-64-5)   | -                     |
| Limonene (5989-27-5)   | ≤ 12%                 |
| Eugenol (97-53-0)  | -                     |
| Farnesol (4602-84-0)   | -                     |
| Geraniol (106-24-1)  | -                     |
| Hexyl Cinnamal (101-86-0)  | -                     |
| Hydroxycitronellal (107-75-5)                                    | -                     |
| Isoeugenol (97-54-1)   | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                    | -                     |
| Linalool (78-70-6)   | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                    | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)  | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)    | -                     |

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## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 2%           |
| 2                                      | ≤2%            |
| 3.A                                    | ≤2%            |
| 3.B                                    | ≤2%            |
| 3.C                                    | ≤2%            |
| 3.D                                    | ≤2%            |
| 4.A                                    | ≤2%            |
| 4.B                                    | ≤2%            |
| 4.C                                    | ≤2%            |
| 4.D                                    | ≤2%            |
| 5                                      | ≤2%            |
| 6                                      | ≤2%            |
| 7.A                                    | ≤2%            |
| 7.B                                    | ≤2%            |
| 8.A                                    | ≤2%            |
| 8.B                                    | ≤2%            |
| 9.A                                    | ≤2%            |
| 9.B                                    | ≤2%            |
| 9.C                                    | ≤2%            |
| 10.A                                   | ≤2%            |
| 10.B                                   | ≤2%            |
| 11                                     | No Restriction |

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For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

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### Technical Data Sheet

|                     |  |
|---------------------|--|
| CAS #               | : 8053-33-6  |
| FEMA #              | : 2167   |
| EINECS #            | : 294-926-4  |
| Botanical Name      | : Boronia megastigma   |
| Product Description | : Yellow/orange to dark brown liquid with characteristic odor.                                   |
| Origin              | : Obtained by the non chlorinated solvent extraction from the open flowers of Boronia megastigma |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Yellow/orange to dark brown                              |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 63°C   |
| Refractive Index            | : 1.427-1.578 @20°C  |
| Relative Density            | : 0.904-0.999 @25°C  |
| Optical Rotation            | : Too dark   |
| Solubility in Alcohol       | : Soluble  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions..         |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

#### PACKING & STORAGE:

Store at ambient temperature, dry and well-ventillated area.

#### Notes

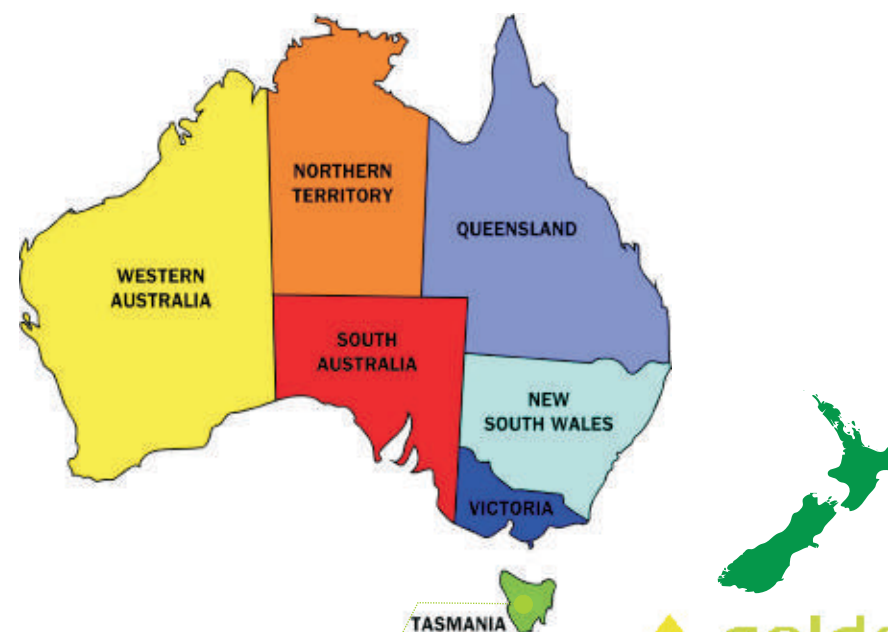
Boronia absolute is produced from the flowers of Brown Boronia (Boronia megastigma); an Australian native shrub with intensely rich, fragrant flowers. Plantation production of this plant was pioneered here in Tasmania.

#### PERFUMERY

Intense  
Rich  
Flowery  
Woody

#### AROMATHERAPY

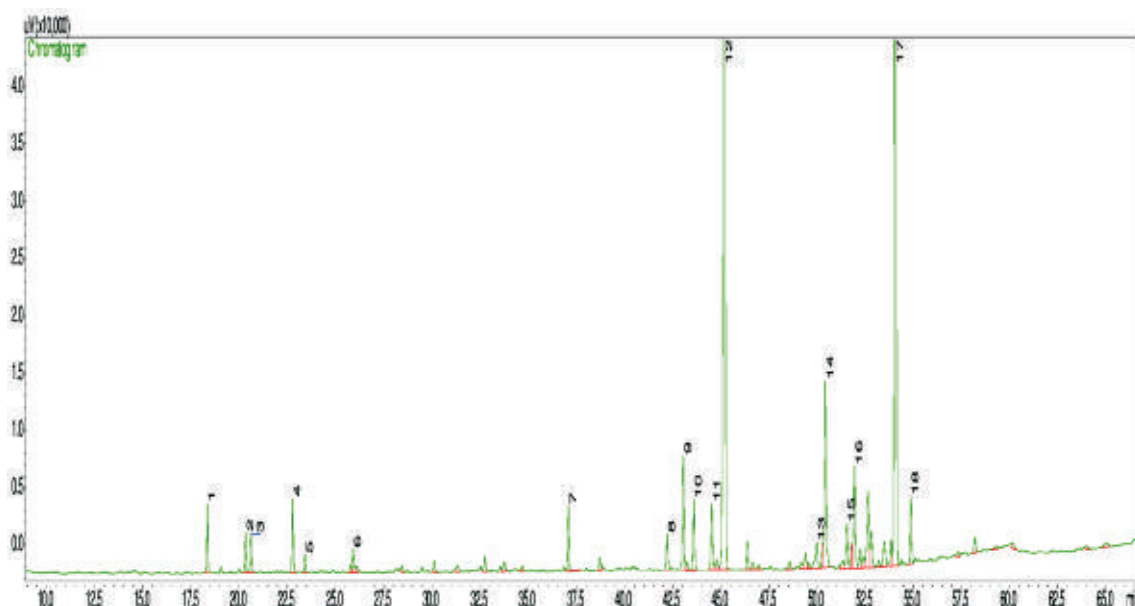
Uplifting  
Refreshing  
Energising



Boronia Absolute Tasmania



### Typical GC Profile



| Peak# | Compound Name             | Area% | ACCEPTABLE RANGE |
|-------|---------------------------|-------|------------------|
| 1     | ALPHA-PINENE              | 1.00  |                  |
| 2     | BETA-PINENE               | 0.64  |                  |
| 3     | MYRCENE                   | 0.63  |                  |
| 4     | LIMONENE                  | 1.21  |                  |
| 5     | TRANS-BETA-OCIMENE        | 0.27  |                  |
| 6     | ALPHA-TERPINOLENE         | 0.41  |                  |
| 7     | CIS-3-HEXENYL ISOVALERATE | 1.08  |                  |
| 8     | BETA-IONOL                | 0.68  |                  |
| 9     | DIHYDRO-BETA-IONONE       | 2.17  |                  |
| 10    | DIHYDRO-BETA-IONOL        | 1.36  |                  |
| 11    | DODECANOL                 | 1.26  |                  |
| 12    | BETA-IONONE               | 34.67 |                  |
| 13    | SPATHULENOL               | 0.76  |                  |
| 14    | DODECYL ACETATE           | 3.77  |                  |
| 15    | METHYL JASMONATE          | 0.97  |                  |
| 16    | METHYL ISOJASMONATE       | 2.37  |                  |
| 17    | 8-HEPTADECENE             | 34.29 |                  |
| 18    | HEXADECENE                | 1.15  |                  |

### Notes

.....

.....

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### Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients   | Total Contents (%w/w) |
|---|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                 | -                     |
| Amyl Cinnamal (122-40-7)  | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                    | -                     |
| Anise Alcohol (105-13-5)  | -                     |
| Benzyl Alcohol (100-51-6)   | -                     |
| Benzyl Benzoate (120-51-4)  | -                     |
| Benzyl Cinnamate (103-41-3)                                       | -                     |
| Benzyl Salicylate (118-58-1)                                      | -                     |
| Cinnamal (104-55-2)   | -                     |
| Cinnamyl Alcohol (104-54-1)                                       | -                     |
| Citral (5392-40-5)  | -                     |
| Citronellol (106-22-9)  | -                     |
| Coumarin (91-64-5)  | -                     |
| Limonene (5989-27-5)  | 2.5%                  |
| Eugenol (97-53-0)   | -                     |
| Farnesol (4602-84-0)  | -                     |
| Geraniol (106-24-1)   | -                     |
| Hexyl Cinnamal (101-86-0)   | -                     |
| Hydroxycitronellal (107-75-5)                                     | -                     |
| Isoeugenol (97-54-1)  | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                     | -                     |
| Linalool (78-70-6)  | -                     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyrall)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                     | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)   | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)     | -                     |

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### IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤3.0%          |
| 2                                      | ≤3.0%          |
| 3.A                                    | ≤3.0%          |
| 3.B                                    | ≤3.0%          |
| 3.C                                    | ≤3.0%          |
| 3.D                                    | ≤3.0%          |
| 4.A                                    | ≤3.0%          |
| 4.B                                    | ≤3.0%          |
| 4.C                                    | ≤3.0%          |
| 4.D                                    | ≤3.0%          |
| 5                                      | ≤3.0%          |
| 6                                      | ≤3.0%          |
| 7.A                                    | ≤3.0%          |
| 7.B                                    | ≤3.0%          |
| 8.A                                    | ≤3.0%          |
| 8.B                                    | ≤3.0%          |
| 9.A                                    | ≤3.0%          |
| 9.B                                    | ≤3.0%          |
| 9.C                                    | ≤3.0%          |
| 10.A                                   | ≤3.0%          |
| 10.B                                   | ≤3.0%          |
| 11                                     | No Restriction |

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It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

### Technical Data Sheet

|                     |   |
|---------------------|---|
| CAS #               | : 8000-28-0   |
| FEMA #              | : 2622  |
| EINECS #            | : 289-995-2   |
| Botanical Name      | : Lavandula angustifolia  |
| Product Description | : Colourless mobile viscous liquid with characteristic odor.                      |
| Origin              | : Obtained by the steam distillation of fresh flowers from Lavandula angustifolia |

#### PHYSICO-CHEMICAL PROPERTIES :

|                             |  |
|-----------------------------|--|
| Appearance                  | : Colourless   |
| Physical Status             | : LIQUID   |
| Flash Point (Closed cup) °C | : 73°C   |
| Refractive Index            | : 1.386-1.531 @20°C  |
| Relative Density            | : 0.836-0.924 @25°C  |
| Optical Rotation            | : N/A  |
| Solubility in Alcohol       | : Soluble in 100% ethanol                                  |
| Solubility in Water         | : Insoluble  |
| Shelf Life                  | : 12 months under recommended storage conditions.          |
| Stability                   | : Avoid strong acids strong bases and all oxidising agents |
| Uses                        | : Fragrance & Flavour Application                          |

#### HANDLING PRECAUTION:

Handle in adequate ventilation, avoid skin and eye contact, use goggles or faceshield and wear protective clothing

#### PACKING & STORAGE :

Store at ambient temperature, dry and well-ventillated area,

#### Notes

Similar to the traditional growing regions of southern France, with its long summer day length and cool nights, Tasmania's maritime climate and soils are well suited to growing one of the most valued, universally used and prescribed essential oils, Lavender.

#### PERFUMERY

Fresh

Sweet

Floral-herbaceous

Slightly woody

#### AROMATHERAPYI

Antiseptic

Astringent

Natural Aphrodisiac

Anti-Inflammatory

Anti-ageing

Antispasmodic



Lavender Oil Tasmania



| Peak# | Compound Name           | Area% | ACCEPTABLE RANGE |
|-------|-------------------------|-------|------------------|
| 1     | METHYL HEXYL ETHER      | 0.04  |                  |
| 2     | CIS-3-HEXENOL           | 0.12  |                  |
| 3     | HEXANOL                 | 0.06  |                  |
| 4     | ALPHA-THUJENE           | 0.04  |                  |
| 5     | ALPHA-PINENE            | 0.15  |                  |
| 6     | CAMPHENE                | 0.05  |                  |
| 7     | 1-OCTENE-3-OL           | 1.28  |                  |
| 8     | ETHYL AMYL KETONE       | 2.85  |                  |
| 9     | SABINENE                | 0.02  |                  |
| 10    | BUTYL BUTYRATE          | 0.14  |                  |
| 11    | BETA-PINENE             | 0.25  |                  |
| 12    | OCTANOL                 | 0.79  |                  |
| 13    | MYRCENE                 | 0.31  |                  |
| 14    | HEXYL ACETAT            | 0.08  |                  |
| 15    | DELTA-3-CAENE           | 0.05  |                  |
| 16    | PARA-CYMENE             | 0.12  |                  |
| 17    | CIS-BETA-OCIMENE        | 5.04  |                  |
| 18    | TRANS-BETA-OCIMENE      | 0.77  |                  |
| 19    | GAMMA-TERPINENE         | 0.06  |                  |
| 20    | CIS-LINALOOL OXIDE      | 0.32  |                  |
| 21    | TRANS-LINALOOL OXIDE    | 0.24  |                  |
| 22    | TERPINOLENE             | 0.07  |                  |
| 23    | LINALOOL                | 40.67 |                  |
| 24    | 3-OCTYL ACETATE         | 0.30  |                  |
| 25    | HEXYL BUTYRATE          | 0.08  |                  |
| 26    | CAMPHOR                 | 0.10  |                  |
| 27    | TRANS-PINOCARVEOL       | 0.10  |                  |
| 28    | LAVANDULOL              | 0.90  |                  |
| 29    | BORNEOL                 | 0.56  |                  |
| 30    | TERPINEN-4-OL           | 2.72  |                  |
| 31    | ALPHA-TERPINEOL         | 0.93  |                  |
| 32    | NEROL                   | 0.21  |                  |
| 33    | LNALYL ACETATE          | 31.13 |                  |
| 34    | LAVANDULYL ACETATE      | 1.65  |                  |
| 35    | BORNYL ACETATE          | 0.01  |                  |
| 36    | HEXYL ACETATE           | 0.10  |                  |
| 37    | NERYL ACETATE           | 0.32  |                  |
| 38    | GERANYL ACETATE         | 0.60  |                  |
| 39    | HEXYL CAPROATE          | 0.03  |                  |
| 40    | BETA-BOURBONENE         | 0.05  |                  |
| 41    | COUMARIN                | 0.04  |                  |
| 42    | CIS-ALPHA-BERGAMOTENE   | 0.09  |                  |
| 43    | ALPHA-SANTALENE         | 0.95  |                  |
| 44    | BETA-CARYOPHYLLENE      | 2.52  |                  |
| 45    | TRANS-ALPHA-BERGAMOTENE | 0.22  |                  |
| 46    | CIS-BETA-OCIMENE        | 0.21  |                  |
| 47    | ALPHA-HUMULENE          | 0.07  |                  |
| 48    | GERMACRENE D            | 0.25  |                  |
| 49    | BETA-BISBOLENE          | 0.06  |                  |
| 50    | GAMMA-CADINENE          | 0.16  |                  |
| 51    | CARYOPHYLENE OXIDE      | 0.25  |                  |
| 52    | TAU-CADINOL             | 0.12  |                  |

## Allergen Declaration

To the best of our knowledge, this product contains the following amounts of fragrance ingredients listed as the 26 allergens in the EU Directive by SCCNFP (Scientific Committee on Cosmetic Products and Non-Food products). The threshold limits for leave-on products is 0.001% and rinse-off products is 0.01%. Beyond these limits allergens must be labeled.

| Ingredients   | Total Contents (%w/w) |
|---|-----------------------|
| Alpha-Isomethyl Ionone (127-51-5)                                 | -                     |
| Amyl Cinnamal (122-40-7)  | -                     |
| Amylcinnamyl Alcohol(101-85-9)                                    | -                     |
| Anise Alcohol (105-13-5)  | -                     |
| Benzyl Alcohol (100-51-6)   | -                     |
| Benzyl Benzoate (120-51-4)  | -                     |
| Benzyl Cinnamate (103-41-3)                                       | -                     |
| Benzyl Salicylate (118-58-1)                                      | -                     |
| Cinnamal (104-55-2)   | -                     |
| Cinnamyl Alcohol (104-54-1)                                       | -                     |
| Citral (5392-40-5)  | ≤ 0.1%                |
| Citronellol (106-22-9)  | -                     |
| Coumarin (91-64-5)  | ≤ 0.1%                |
| Limonene (5989-27-5)  | -                     |
| Eugenol (97-53-0)   | -                     |
| Farnesol (4602-84-0)  | -                     |
| Geraniol (106-24-1)   | -                     |
| Hexyl Cinnamal (101-86-0)   | -                     |
| Hydroxycitronellal (107-75-5)                                     | -                     |
| Isoeugenol (97-54-1)  | -                     |
| Butylphenyl Methylpropional (Lilial)(80-54-6)                     | -                     |
| Linalool (78-70-6)  | ≤ 45%                 |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyrall)(31906-04-4) | -                     |
| Methyl 2-Octynoate (111-12-6)                                     | -                     |
| Evernia Furfuracea (Treemoss Extract) is forbidden (90028-67-4)   | -                     |
| Evernia Prunastri (Oakmoss Extract) is forbidden (90028-68-5)     | -                     |

**Disclaimer:** Golden Grove Naturals cannot be held liable for any loss or damage suffered by any person as a result of following of relying on the information disclosed. The use of this information is the responsibility of the user. When a batch is specified, the information disclosed is for this particular batch only and representative of products of the same code and description.

## IFRA Certificate

Revision: IFRA/2014/01

conforms to the 48th amendment of the international fragrance association (IFRA) using a percentage (%) of:

| IFRA Class(es) (see annex for details) | Level of use % |
|--|----------------|
| 1                                      | ≤ 10%          |
| 2                                      | ≤10%           |
| 3.A                                    | ≤10%           |
| 3.B                                    | ≤10%           |
| 3.C                                    | ≤10%           |
| 3.D                                    | ≤10%           |
| 4.A                                    | ≤10%           |
| 4.B                                    | ≤10%           |
| 4.C                                    | ≤10%           |
| 4.D                                    | ≤10%           |
| 5                                      | ≤10%           |
| 6                                      | ≤10%           |
| 7.A                                    | ≤10%           |
| 7.B                                    | ≤10%           |
| 8.A                                    | ≤10%           |
| 8.B                                    | ≤10%           |
| 9.A                                    | ≤10%           |
| 9.B                                    | ≤10%           |
| 9.C                                    | ≤10%           |
| 10.A                                   | ≤10%           |
| 10.B                                   | ≤10%           |
| 11                                     | No Restriction |

(\*\*) This certificate does not include food status conformity check. For these applications provides a separate document when required.

For other kinds of applications or use at higher concentration levels, a new evaluation may be needed: please contact Golden Grove Naturals.

These recommendations are meant for the use of fragrance compounds in perfumery products and have been established by the Technical Committee of IFRA after careful examination of the studies from RIFM, the industry and appropriate scientific literature.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing the fragrance) by further testing if needed.

# Annexure

| Finished product types   | IFRA class       |
|--|------------------|
| Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.), Children's Toys   | <b>Class 1</b>   |
| Deodorant and Antiperspirant Products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deo-cologne and body spray, etc.) Nose pore strips; Fragranced Bracelets  | <b>Class 2</b>   |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave)- EDT Range  | <b>Class 3.A</b> |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave)- Fine Fragrances  | <b>Class 3.B</b> |
| Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc.) including eye care Men's Facial Creams and Balms Baby Creams, Lotions, Oils; Body Paint for Children  | <b>Class 3.C</b> |
| Tampons  | <b>Class 3.D</b> |
| Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum – EDT Range Ingredients of Perfume Kits; Scent Pads, Foil packs; Scent Strips for Hydroalcoholic products  | <b>Class 4.A</b> |
| Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum – Fine Fragrances  | <b>Class 4.B</b> |
| Hair Styling Aids Sprays of all types (pumps, aerosol sprays, etc.) Body Creams, Oils, Lotions of all types (except baby creams, lotions and oils) Body sprays (including Body Mist) with no intended or reasonably foreseeable use on the axillae Fragrance Compounds for Cosmetic Kits; Foot Care Products; Hair deodorant; Body Paint (except those for children) | <b>Class 4.C</b> |
| Fragrancing cream; Solid perfumes  | <b>Class 4.D</b> |
| Women's Facial Creams/Facial Make-up; Facial Masks; Hand Cream; Hand sanitizers Hair Permanent and other hair chemical treatments (e.g. relaxers) but not hair dyes Wipes or Refreshing Tissues for Face, Neck, Hands, Body Baby Powder and Talc; Dry Shampoo or Waterless Shampoo   | <b>Class 5</b>   |
| Mouthwash, including Breath Sprays; Toothpaste   | <b>Class 6</b>   |
| Intimate Wipes; Baby Wipes   | <b>Class 7.A</b> |
| Insect Repellent (intended to be applied to the skin)  | <b>Class 7.B</b> |

| Finished product types  | IFRA class        |
|---|-------------------|
| Make-up Removers of all types (not including face cleansers) Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners, etc.) Nail Care; Powders and talc, all types (except baby powders and talc)   | <b>Class 8.A</b>  |
| Hair Dyes   | <b>Class 8.B</b>  |
| Face Cleansers of all types (washes, gels, scrubs, etc.) Body Washes of all types (including baby washes) and Shower Gels of all types Bath Gels, Foams, Mousses, Salts, Oils and Other Products added to bathwater Conditioner (Rinse-Off); Liquid Soap; Bar Soap (Toilet Soap) Shaving Creams of all types (stick, gels, foams, etc.) Shampoos of all types (including baby shampoos) All Depilatories (including waxes for mechanical hair removal)  | <b>Class 9.A</b>  |
| Feminine hygiene - pads, liners; Toilet paper; Wheat bags   | <b>Class 9.B</b>  |
| Facial tissues; Napkins; Paper towels Other Aerosols (including air freshener sprays and air freshener pump sprays, but not including deodorants/antiperspirants, hair styling aids sprays)   | <b>Class 9.C</b>  |
| Hand wash Laundry Detergents of all types including concentrates Fabric Softeners of all types including fabric softener sheets Household Cleaning Products, Other Types (fabric cleaners, soft surface cleaners, carpet cleaners, etc.) Machine Wash Laundry Detergents (liquids, powders, tablets, etc.) including laundry bleach and concentrates Hand Dishwashing Detergent including concentrates Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.) Shampoos for pets; Dry cleaning kits; Scented gloves, socks, tights with moisturizers  | <b>Class 10.A</b> |
| Diapers; Toilet seat wipes  | <b>Class 10.B</b> |
| All non-skin contact including:<br>Air Fresheners and Fragrancing of all types (plug-ins, solid substrate, membrane delivery, ambient, electrical...) Toilet Blocks; Joss Sticks, Incense; Insecticides (mosquito coil, paper, electrical, for clothing etc.) excluding aerosols; excluding aerosol products; Plastic articles (excluding toys); Candles; Fuels; Paints; Liquid refills for air fresheners (cartridge systems); Floor wax; Fragranced lamp ring; Scent pack; Scent delivery system using a dry air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulization); Air freshening crystals; Machine only Laundry detergent (e.g. liquid tabs); All non-skin contact including: Machine dish wash detergent and deodorizers; Deodorizers/Maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders); Potpourri, fragrance sachets, liquid refills for air fresheners (non-cartridge systems), Reed diffusers; Shoe Polishes; Cat litter; Animal sprays (all types); Treated Textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics, tights with moisturizers); Odoured distilled water (that can be added to steam irons); Scratch and Sniff (sampling technology). | <b>Class 11</b>   |





**golden grove**  
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