



**DownUnder**  
enterprises

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*Traceable  
Sustainable  
Botanicals*



We strive to be the most respected global provider of native Australian ingredients.

Our products are 100% pure, 100% natural, and 100% traceable. Our products are grown, developed, and brought to market in the most environmentally friendly and sustainable manner possible.

We develop and support our team members to be knowledgeable and highly capable, enabling them to take pride in supporting - beyond expectations - our customers' requirements.



"One of Australia's most prestigious and longest running award programs, the NSW's Premier's Export Awards publicly recognizes the talent and innovative spirit of NSW's top exporters and their role in boosting the State and Australia's economy."

## TRACEABLE AND SUSTAINABLE. NATIVE AUSTRALIAN BOTANICALS

To produce one kilogram of Pure Australian Tea Tree Oil, we need to grow and nurture 75 tea trees for one year.

To produce one kilogram of pure Australian Sandalwood Oil, we need to grow one Sandalwood tree for over 25 years.

To produce one kilogram of pure Australian Eucalyptus Radiata Oil, we need to grow and nurture 187 Eucalyptus trees for two years to get to our first harvest.

How do we know this? Because we are the farm – we are out there in the 40°C (104°F) heat planting, irrigating, and weeding. We're in the fields rain or shine, worrying whether the next hail storm will destroy next season's oil harvest. We are also out there when it's 5°C, worrying about the frost that can also damage our plants just before the harvest. We are constantly out in the fields pulling weeds, checking for bugs, and analyzing soil and water samples.

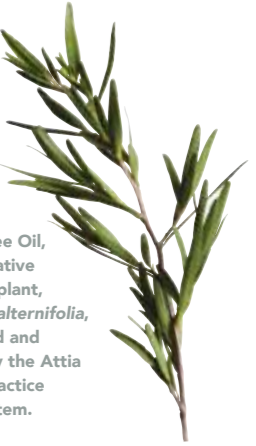
We are farmers – we produce native Australian essential oils and supply them directly from our farms – we look after the environment, ensuring our farming practices are as sustainable as possible – but there is so much more we need to do to get our products to you.

We are also warehouse and shipping experts, lab analytic specialists, marketing experts, finance managers, quality specialists, regulatory advisors, and order fulfilment specialists.



**Our combined expertise delivers the finest native Australian essential oils and botanicals. We hope these efforts give you confidence – confidence in the purity, the traceability, and the sustainability of our ingredients to use in your own formulations.**

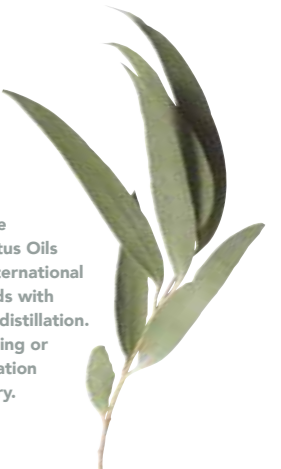
Our Tea Tree Oil, from the native Australian plant, *Melaleuca alternifolia*, is produced and certified by the Attia Code of Practice quality system.



Sandalwood Oil (*Santalum spicatum*) is certified Sustainable by the government's Forest Products Commission. Traceable from harvest to drum.



Our pure Eucalyptus Oils meet international standards with original distillation. No refining or fractionation necessary.



## WHEN IS BEST NEVER GOOD ENOUGH?

Down Under Enterprises was founded over 18 years ago in a spare bedroom to sell Tea Tree Oil from Dee-Ann's parents' farm. Right from the beginning, Dee-Ann found great joy and satisfaction in working with many of the early innovators in the natural products industry. She found this a striking and refreshing change from her prior career experience in Investment Banking and Management Consulting.

In the years since, the focus of the company and our commitment to our customers has never wavered. We have never been about just making the sale. If our product was not right for a prospective customer, we would rather tell them that we're not the best solution for them rather than trying to make it work. We have never compromised on quality – preferring to not sell a product versus putting out a product which was not top notch.

As our company has grown, so have our customers and our staff to support this customer base. We know that finding the right employee is a critical responsibility. We love that our team has the same mentality as we do; they focus on your needs – they go beyond the minimal requirement and try to exceed your expectations every day. This personal drive is not something that can be easily trained. Our team is involved in regular training, undertake personal development activities, and gain exposure to all areas of our organization. Our highly talented and diverse team is a key reason why customers work with us.

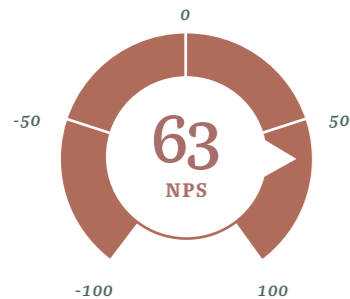
Down Under conducts regular assessments of our Customers' satisfaction levels and appreciates feedback on how we can further improve. Our customers have given us an exemplary Net Promoter Score of 63, far exceeding the industry benchmark of 45 by a wide margin.

Our ingredients are now used by hundreds of manufacturers in the personal care, home care, pet care, medicinal care and industrial markets every year. We take this responsibility seriously. With this growth comes a formalization of our inherent beliefs and values. We have also always been passionate about the environment and minimizing our impact on it.

Our business and life philosophy, and now our Mission Statement (refer to the inside cover), encompasses these three driving principles.

**Our ingredients are now used by hundreds of manufacturers in the personal care, home care, pet care, medicinal care and industrial markets every year. We take this responsibility seriously.**

### OUR NET PROMOTER® SCORE



Dee-Ann, our founder, harvesting Tea Tree at Robel farm.



Walsh's Creek at our farm – Buhlambar



## OUR SUSTAINABILITY COMMITMENT

### There is only one 'Mother Earth'.

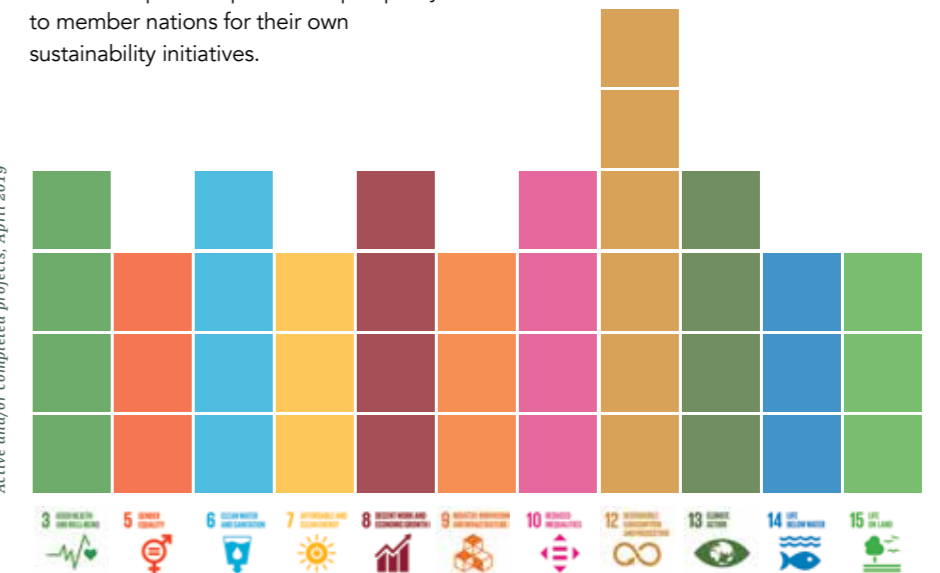
We take great responsibility in looking after her across all of our farms and partner farms and global operations. We make sure we are acting in the most responsible and sustainable manner. We review our practices and activities as part of a continuous improvement process we call our Cycle of Sustainability. Our environmental management system has been certified to ISO14001:2015 international standards.

While many of these goals are truly targeted at national programs, especially for emerging countries, the UN Sustainable Development Goals does offer a common framework. Of these seventeen UN Sustainable Growth Goals, Down Under has chosen eleven of these goals which are directly applicable to us and serve as a framework for the management of our Sustainability program.

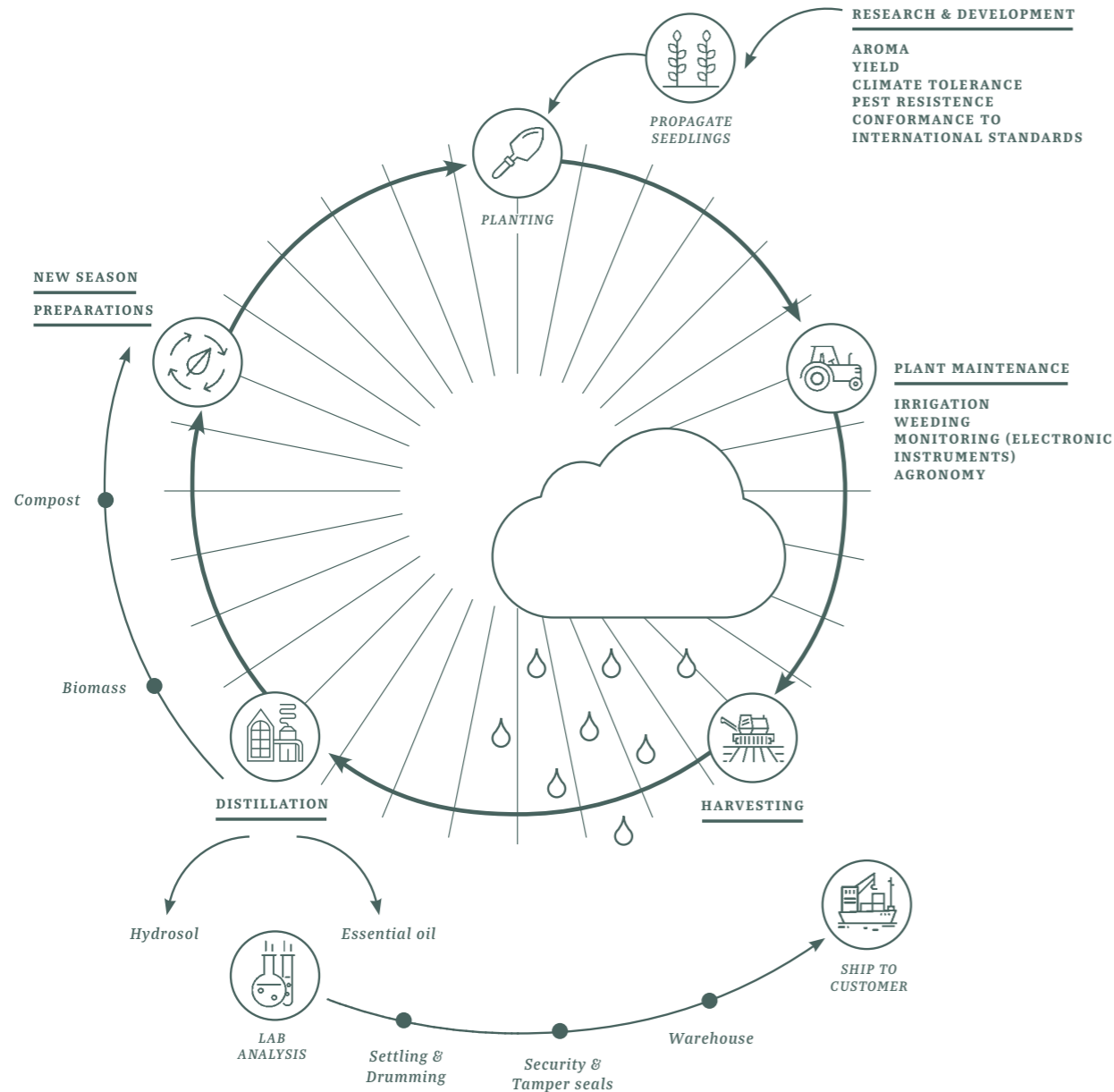


In 2015, the United Nations member states adopted the Sustainable Development Goals as part of the UN 2030 Agenda for Sustainable Development. These 17 topics of focused sustainable development initiatives are designed to 'provide a shared blueprint for peace and prosperity' to member nations for their own sustainability initiatives.

Active and/or completed projects, April 2019



## OUR CYCLE OF SUSTAINABILITY



Sustainability is at the heart of our farming operations. From major initiatives like our R&D optimization programs down to the finest details like packaging seals to preserve our oils and prevent product loss, we continually look for new ways to improve our sustainability profile and deliver a premium product to you. Our 'Cycle of Sustainability' illustrates the seasonal cycle of our farming operations, complimented by the manufacturing processes and controls to achieve highly specified product quality standards to meet your strictest requirements.



### Research & Development

Before the first seedling is planted, considerable time – many years – is invested to identify the best native Australian plant varieties, producing unique functional attributes and consistent aromas, with a tolerance for our specific climate and soil conditions. We also work with our analytical lab to confirm the resultant oil will conform to international standards.



### Seedlings

After optimization of the oil properties and yield potential, parent plants are bred out – a process which can take a couple more years. From these parents, we can obtain seeds and germinate seedlings – or propagate clones – and prepare them for planting.



### Planting

With our essential oil plants, planting is generally done once in a lifetime. Thus, every aspect of the planting process needs to be perfect – we don't have next season to plant again and make it better. We do it once and do it right. Many considerations have to come together at the same time for a successful planting – soil structure, soil moisture, bed forming, and

seedling maturity. Of course the weather has an enormous impact at this stage – we can plan everything meticulously, but if the weather doesn't cooperate to yield the right conditions, then we need to wait. It's also a time where we need a lot of extra hands on board for the operation. This stage will require 3 or 4 tractors, 10 or more staff, and close cooperation with our nursery to deliver the seedlings in their optimal condition. This is where we sweat the details – intensely.



### Maintenance

For our new seedlings and mature plants alike, we constantly monitor soil moisture, insects, and weed infiltration to make sure we achieve a healthy crop.



### Harvest

Winter means harvest time for many of our plants. Daylight grows short, but our days grow long with 24/7 harvesting, biomass handling, and distillation activities. We hope for dry weather at this time of year so our harvesters can get on the fields and get the crop off.

## PLANTING PROCESS



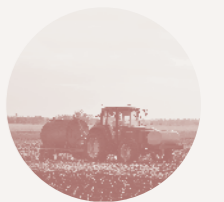
Laser levelling



Power hoeing



Planting



Watering in seedlings



**The spent biomass is returned to our composting operations where, over an 8-12 week process, is turned into a rich humus material, and then returned to our paddocks as organic fertilizer.**



#### **Distillation**

At the distillery, we get three unique outputs – Essential Oil, Hydrosol, and spent biomass. The Essential Oils and Hydrosols start a rigorous quality control process of batching and lab analysis .



#### **Composting and New Season Preparations**

The spent biomass is returned to our composting operations and, combined with manure, wood chips and other waste silage over an 8-12 week process. This organic mixture is turned into a nutrient-rich, high humus content product which we apply to the field and work into the growing beds with specialized equipment to facilitate the young, new season growth of our plants.



#### **Lab Analysis and Documentation**

Once the Oils have settled, passed our Quality Control procedures, and released through our custom-designed batch management system, they are ready to be decanted into their final packaging.

#### **Drumming and Security Seals**

Packaging of Essential Oils is an important consideration which can easily be overlooked. Essential Oils are generally a combination of Terpenes, Sesquiterpenes, Oxides, and other organic compounds which can have a deleterious effect on plastic packaging. Inferior packaging will result in the introduction of “undesirables” leaching into

the Essential Oil, such as phthalates and other plasticizers, heavy metals, and even the coatings applied inside many containers. That is why all packaging used by Down Under for our oils have undergone extensive shelf life studies, detailed plastics analysis, and oil quality assessment. Once the Oils are drummed, we apply a layer of Argon gas (sparging) to create an anoxic environment. Why Argon? With an atomic weight of 39.95, Argon will sit on top of the oil and block Oxygen (weight: 15.99) from contacting the oil and causing oxidation and degradation. Why not Nitrogen? Argon is over 2½ times heavier than Nitrogen (weight: 14.00) and will continue to provide efficacy once opened, whereas Nitrogen will escape from the container once opened and cease to provide efficacy. All containers are then sealed using our own tamper-evident seals. Finally our batch-specific and GHS-compliant labels (able to withstand 3+ months total immersion in water) and DG hazard labels are applied.



#### **Worldwide shipping**

Our Essential Oils are now ready to be safely shipped to our customers worldwide, confident our products will reach our customers in the best possible condition, while being 100% traceable back to the sustainable farming practices on each of our farms.

First harvest at our farm, Buhlambar





**LEMON SCENTED TEA TREE**

Down Under has commissioned Cheryl Hodges, an award-winning artist from Canberra, Australia’s capital, with a focus on botanical watercolors. She is a member of the Florilegium Society of the Royal Botanic Gardens Sydney, where one of her paintings is in the permanent collection of the National Herbarium.

**TRACEABILITY**

**From our farms to your facility - our traceability pledge.**

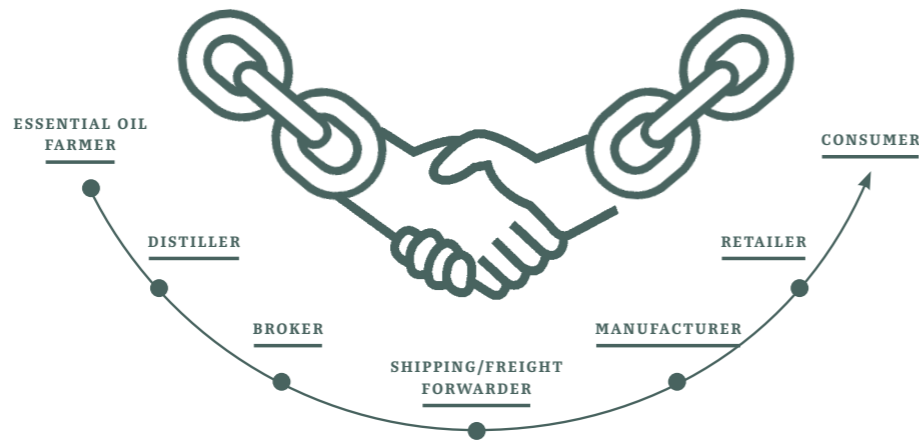
With every kilogram of essential oil produced on our farms, an extensive amount of data is generated to make sure we have documented every aspect of getting this oil from our plants and into a drum and delivered to you. In this process, our custom-designed farm management system has captured all agricultural operations associated with that oil – from the origin of the seeds we planted, the farm activities we undertook to bring the plants to harvest, the lab testing on each and every batch.

While many companies are talking about traceability, Down Under Enterprises is ready. We have adapted and deployed this functionality across our systems and internal processes to ensure complete tracking of every batch of product.

**Blockchain**

We believe blockchain technology for supply chains has reached the critical mass to now make it practical. We are onboarding blockchain capability and will be able to provide you with direct API integration between our system and yours. If this is of interest to you, contact us to discuss your requirements.

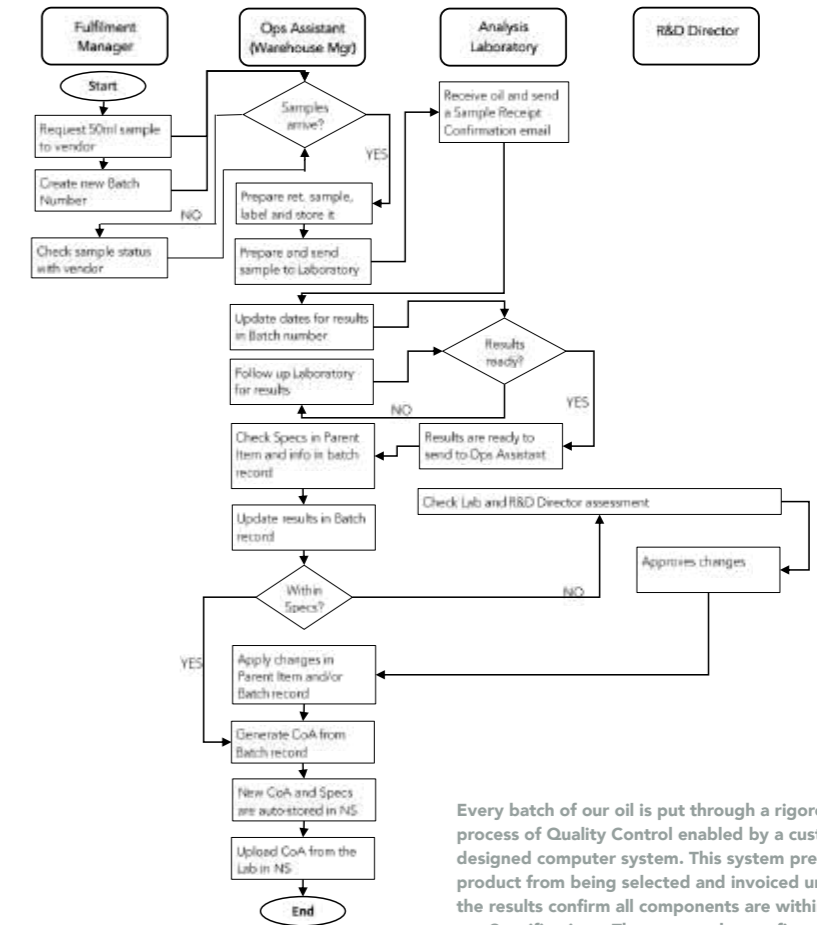
Whether you’re with us on blockchain or a more manual process, we will continue to track every batch of oil from the farm, to the distillery, into our drums, and directly to you. Traceability is a key tenant in our quality promise and we are focused in our efforts to uphold this commitment to you.



**QUALITY ASSURED**

With Down Under Enterprises, you can be assured you’re getting the very best native Australian ingredients possible – whether it’s one of our 100% pure Australian essential oils, our native carrier oils, or our specialty ingredients. Down Under conducts Mass Spectroscopy/ Gas Chromatography analysis on each and every batch, on every oil – 100% compliance. This testing is independently conducted by Southern Cross University Plant Science Labs, world-renowned for their experience with essential oil testing. Batch after batch of testing our oils, these experts have never found any trace of herbicides or pesticides in our oils. That is why every one – 100% – of our oils is COSMOS Natural certified by EcoCert. We are proud of this record of purity, our customers applaud us for it, and we know you will appreciate it too.

We also understand that your company – and your customers – may require different types of product certifications. That is why, where we can, we offer you the choice of Conventionally Farmed or Certified Organic (USDA NOP, ACO, Bio-CE). Please talk to us about your specific certification requirements and we will work to meet those needs.



Every batch of our oil is put through a rigorous process of Quality Control enabled by a custom-designed computer system. This system prevents product from being selected and invoiced until the results confirm all components are within our Specifications. The system also confirms a Retention Sample is logged and an image is obtained for color verification. Our Certificates of Analysis are then auto-generated by the system and issued with each shipment.



## LOGISTICS AND DISTRIBUTION

In today's business environment of lean inventory management, variable customs fees, port industrial relations delays, and even regulatory authorities (e.g. US FDA) halting shipments without warning, having a locally-based supply of direct-from-plantation Australian essential oils and carrier oils makes a lot of sense. In fact, it can take a lot of risk out of your supply chain. It's the reason we implemented this business model many years ago, and the reason why so many customers trust Down Under Enterprises as their preferred vendor for pure Australian essential oils and carrier oils.

Down Under Enterprises has the experience and scale to manage FCL/LCL and airfreight shipments of our products. Many essential oils are Dangerous Goods rated (DG Class 3, Packing Group III) for transportation purposes (as governed by US DOT, IATA, IMDG, among others), requiring special training, certifications, and handling procedures. Contraventions of these regulations can carry stiff penalties, even imprisonment. Down Under Enterprises has the training, certifications, and procedures in place to handle and ship these oils safely and efficiently. We can also provide optimal shipping guidance – sometimes even saving your organization from these DG shipping rates.

The Global Harmonization System (GHS) of Classifying and Labelling Chemicals has changed shipping and documentation

requirements considerably – Down Under has you covered there too. All of our Safety Data Sheets (SDS) fully comply with GHS shipping and labelling requirements; we can even supply these SDS's in 26+ local languages.

For the comfort and convenience of knowing your oil is delivered safely and legally – let us handle the logistics. We can deliver via common carrier, FedEx/UPS/DHL, or your preferred method of transport from our warehouse to your facility in the shortest timeframe possible.

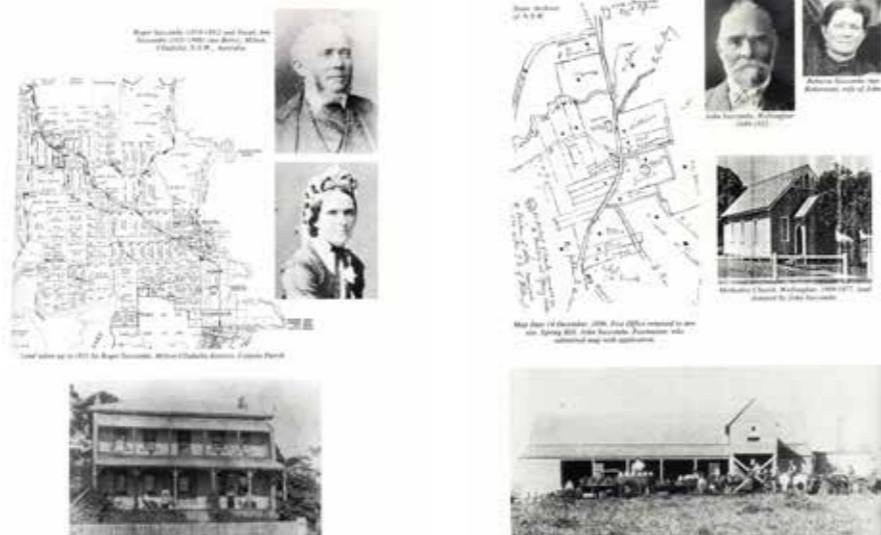




## OUR HISTORY

Down Under Enterprises was founded in 2001 by Dee-Ann Prather as a family owned and operated company to distribute wholesale, bulk Australian Tea Tree Oil from her family's farms, assuring customers of a reliable supply with highly consistent quality and aroma.

Since the 1850's, five generations of our family have been farming in Australia. From our first tea tree plantation in the 1990's, our parents and our brother's family grew to run multiple plantations across the key native growing region for Tea Trees. As the global demand for Pure Australian Tea Tree Oil expanded, the number of our plantations increased and each new plantation provided greater efficiencies and higher yield plants. From this history, Down Under Enterprises has become one of the largest suppliers of 100% Pure Australian Tea Tree Oil to the United States and now around the world. As the popularity of Tea Tree Oil has grown, our business has also grown to include additional oils also sourced from farms owned and operated by our friends. Today, we obtain our Tea Tree Oil from over 452 hectares of conventionally farmed Tea Trees, with another 340 hectares managed with USDA certified organic status.



In 2016, Down Under Enterprises developed a new plantation which yields an additional 50,000kg of high quality tea tree oil and other essential oils. Called Buhlambar, "Home of Tea Tree" in local Aboriginal Bundjalung language, this plantation is available for customer visits to experience first-hand how tea trees are grown. You may even encounter one of our residents - koalas, kangaroos, and other native Australian fauna - while visiting our farm. In 2018, we expanded the farm by 40% with the purchase and development of an adjoining biodynamic farm.

Contact us to discuss your planned visit to Australia and to see us at Buhlambar.

**Buhlambar, "Home of Tea Tree" in local Aboriginal Bundjalung language, is available for customer visits to experience first-hand how tea trees are grown and turned into Pure Australian Tea Tree Oil.**



Robel Farm - Our first family Tea Tree farm



## OUR FARMING HERITAGE



*The Secombe family*



*The Prather family*



## PURE AUSTRALIAN TEA TREE OIL

AMERICAN BOTANICAL  
COUNCIL

Tea Tree Oil is an essential oil obtained from the steam distillation of the native Australian plant *Melaleuca alternifolia*. It has been used for thousands of years by Australian Aborigines as an effective treatment of various skin maladies. In the early twentieth century, a Sydney-based chemist, Dr. Arthur Penfold, discovered that tea tree essential oil was thirteen times stronger than carbolic acid – the standard at that time – as an antiseptic. To this day, *Melaleuca alternifolia* is one of the most heavily researched and cited essential oils in existence; Google Scholar references nearly 5000 citations since 1980. Research topics range from the in vitro validations of its antimicrobial properties to extensive, randomized and prospective in vivo human studies. This ever-expanding body of evidence is likely to further the applications and demand for this natural oil. Recently, researchers in Australia even used Tea Tree Oil to synthesize graphene (single-layer carbon fiber) sheets! Tea Tree Oil's properties as an effective antiseptic, antibacterial, antifungal, antiviral, and anti-inflammatory agent are highly valued in personal care formulations.

Down Under Enterprises has compiled a series of technical and clinical white papers which summarize the research conducted in different use cases such as, medicinal applications, home care, hair care, skin care, and oral care.

In 2014, Tea Tree Oil was approved by the European Medicines Agency as a Traditional Herbal Medicine, with four defined indications for use. Notably, three of the four indications involve the use of pure, undiluted Tea Tree Oil.

- For treatment of small superficial wounds and insect bites
- For treatment of small boils (furuncles and mild acne)
- For the relief of itching and irritation in cases of mild athlete's foot
- For symptomatic treatment of minor inflammation of the oral mucosa.



Founded and managed by the American Botanical Council (ABC), the Adopt-an-Herb™

program has been in existence since 2008. Each adopting organization helps ensure that the most current information on each herb is available in HerbMedPro, enabling consumers, researchers, educators, media, health practitioners, government agencies, and members of industry (including retailers and other) with easy access to abstracts of the latest scientific and clinical publications on the many aspects, properties, and benefits of the adopted herb. Down Under Enterprises has proudly adopted Tea Tree Oil in the Adopt-an-Herb program and assists the ABC to support and expand the public's knowledge of the essential oil, hydrosol, and other uses of Australian Tea Tree Oil (*Melaleuca alternifolia*).



Seedlings



Planting



Irrigating



Harvesting



Distillation



Shipment

## ATTIA

In Australia, the home of premium-quality Tea Tree Oil, the Australian Tea Tree Industry Association (ATTIA) is a not-for-profit organization formed in 1986 as the peak body to promote and represent the interest of the Australian tea tree industry from the grower/producer of Australia Tea Tree Oil, through to the manufacturer of off-the-shelf products. ATTIA aims to develop a stable, cohesive, environmentally friendly, and internationally competitive Tea Tree Oil industry producing quality assured Tea Tree Oil that meets or exceeds international standards.

The Australian Tea Tree industry is environmentally aware and was one of the first industry bodies to adopt a policy that broadly embraces the principles of the ISO14000 environmental standards. ATTIA members must abide by this policy's stringent guidelines for the responsible production of pure Tea Tree Oil and Tea Tree Oil product. The composition of Tea Tree Oil products is determined by ISO 4730 (2017) Standard - Oil of Melaleuca, terpinene-4-ol type.

### ATTIA PACKAGING STANDARDS



### Storage Packaging & Transport

When Tea Tree Oil is stored and transported, ATTIA Code of Practice standards ensure that the quality of the oil is not compromised. While stainless steel is the best material for long term storage and shipment of Tea Tree Oil, a select range of packaging has undergone extensive long term and accelerated testing and analysis by ATTIA.

Avoid accepting any Tea Tree Oil in non-approved aluminum flasks, mild steel drums (including EPON-lined), non-fluorinated (Level 5) HDPE or any other plastic whatsoever – it will no longer be pure and/or will likely exhibit accelerated oxidation. Down Under Enterprises can help you determine which container is most suitable for your requirements.

### COP QUALITY (CODE OF PRACTICE)

One of the biggest risks in strategic sourcing of natural products is identifying the source/provenance and natural purity of your ingredients. Down Under Enterprises makes this easy for you. The Australian Tea Tree Industry Association Code of Practice is a complete Quality Management System specifically written for the Tea Tree Industry. Covering everything from planting and maintenance, to harvesting, distilling, packaging, and even records management, the Code of Practice (COP) and the COP seal on our packaging, is your guarantee that our Tea Tree Oil has been produced to the highest standards of purity and consistency in the world. If your supplier does not offer COP-certified Tea Tree Oil, find out why, then talk to Down Under Enterprises. Your QA and Manufacturing team will thank you for it.



### ADULTERATION AND A NEW ISO STANDARD FOR TEA TREE OIL

As the effectiveness of pure Australian Tea Tree Oil has become widely recognized, a market has developed for low-cost adulterated oil, often consisting of Tea Tree Oil blended with components such as sabinene from pine oil. Some companies are also creating "Nature Identical" Tea Tree Oil, synthetically created from only 15 of the 113+ components as listed in the International Standard (ISO 4730) for Tea Tree Oil.

Manufacturers of these adulterated oils often mix the components to ensure that physical properties (e.g. optical rotation) are adjusted to conform to the standard. Detection of such oils can be difficult. These products masquerading as Tea Tree Oil have no scientific evidence to support their Safety nor their Efficacy, placing consumers at risk. Consumers using this adulterated product may unknowingly suffer detrimental experiences, turning them away from using Tea Tree Oil entirely.

ATTIA has identified Chiral Molecule Analysis as a simple test to quickly and inexpensively differentiate pure, natural Tea Tree Oil from adulterated Tea Tree Oil. This definitive testing methodology has undergone extensive validation as published by Wong, Davies, Chin, et al., in the May 2015 issue of Industrial Crops and Products (see below results). The Chiral Molecule Analysis is incorporated in the revised ISO standard for Tea Tree Oil (2016).



## AUSTRALIAN ESSENTIAL OILS

We are passionate about native Australian essential oils and botanicals. We live here, we know this country, we understand its plant life. We love the amazing diversity that has evolved across this vast country of ours – the only one in the world to encompass an entire continent!

Australia's geographic isolation has created a unique mix of fauna – Kangaroos, Koalas, Emus, Platypus – found nowhere else in the world. Australia's flora is no different – all of it adapting to the continent's harsh and uncompromising environment. These elements form the basis of our product line – plants which have developed

their own natural defense mechanisms, resisting pest and pathogen attacks, achieving drought and flood tolerance, and exhibiting unique and complex chemical compositions. The essential oils of these plants are now brought to you by the leader in Australian Essential Oils – Down Under Enterprises.

The remainder of this booklet provides extensive product information, applications, and key sourcing details for each of our products. We encourage you to read through this booklet and talk to us about your specific product formulation requirements.



“I love a sunburnt country, a land of sweeping plains, of ragged mountain ranges, of droughts and flooding rains.”

MY COUNTRY, BY DOROTHEA MACKELLAR



**ANISE MYRTLE**



**PRODUCT DETAILS**

<b>Product Name:</b>	100% Pure Australian Anise Myrtle Oil
<b>Botanical name:</b>	<i>Syzygium anisatum</i> (syn. <i>Backhousia anisata</i> )
<b>INCI:</b>	Backhousia Anisata Leaf Extract
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	8008-46-6
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Clear, colorless to pale yellow mobile liquid
<b>Aroma:</b>	Anise, fennel or licorice scent
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



**THERAPEUTIC PROPERTIES**

Formerly known as *Backhousia anisata* and *Anetholea anisata*, the anethole chemotype of the botanically reassigned *Syzygium anisatum* can be used as a flavoring agent in foods and beverages. Like many other plants with similar flavor qualities it acts as a digestive aid and carminative. Low amounts will suffice in most formulations as it has a very high odor and flavor intensity. Much like licorice, it is used as an expectorant and it is best added to other oils to complement and potentiate other medicinal activities. It may be used in the fragrance industry as a substitute for anise or fennel aroma.

“Anethole is regarded as an antiseptic, bactericide, cancer-preventative, carminative, dermatogenic, expectorant, fungicide, gastrostimulant and insecticide” (Webb). It lowers the sympathetic nervous system response, allowing for a greater sense of relaxation.

The methyl chavicol chemotype is toxic at high doses in mice. It is “an anesthetic, anticonvulsant, myorelaxant, cancer-preventative, fungicide, antispasmodic, a carminative and stabilizes the sympathetic nervous system, hence its antispasmodic qualities” (Webb).

Results from a study done in 2005, show that essential oils from this and other Australian plants may be valuable antimicrobial agents for use alone or incorporated into cosmetics, cleaning agents and pharmaceutical products (Wilkinson).

**MAJOR CHEMICAL CONSTITUENTS**

Two chemotypes exist: (a) one rich in (E)-anethole (>80%) and (b) rich in methyl chavicol (60-75%), which is also known as estragole (commonly found in basil and tarragon). Minor amounts of alpha-pinene, cineole, (Z)-anethole, limonene alpha farnesene, and anisaldehyde exist in each chemotype.

**MORE INFORMATION**

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**

Batiaglia, Salvatore. *The Complete Guide to Aromatherapy*; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
 Schnaubelt, Kurt. *Medical Aromatherapy*; Frog Ltd, 1999, Berkeley, CA.  
 Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Shaving and Post Wax	Hand and Body Wash	Decongestant		Food Preservative
	Massage	Anticarcinogen		Culinary
	Hair Care			Perfume
	Oral Care			Aromatherapy
	Lip Balm			

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

**BALM MINT BUSH****PRODUCT DETAILS**

<b>Product Name:</b>	100% Pure Australian Balm Mint Bush Oil
<b>Botanical name:</b>	<i>Prostanthera melissifolia</i>
<b>INCI:</b>	None issued
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	3082 (Class 9)
<b>CAS No:</b>	None issued
<b>Part of Plant Used:</b>	Leaves
<b>Appearance:</b>	Clear, colorless to pale yellow liquid
<b>Aroma:</b>	Minty with a hint of eucalyptus
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS

**THERAPEUTIC PROPERTIES**

*Prostanthera* is a genus of flowering plants of the mint (*Lamiaceae*) family. There are about 90 species within the genus, all of which are endemic to Australia. The genus name is derived from the Greek word for 'appendage'. The species name relates to having foliage similar to *Melissa officinalis* (Lemon Balm); hence the common name. The Mint Bush family has a wide variety of variations that are often used in Australian Bush cooking.

The leaves from which the essential oil is derived are described as antibacterial, antimicrobial, antifungal and carminative. They are used externally in the treatment of colds and headaches.

An Australian study conducted in 2009 determined that essential oils from Australian native plants offer limited protection against biting mosquitoes however a blend of essential oils (including Balm Mint) may offer commercial potential as a short-period repellent or under conditions of low mosquito abundance.

Based on the chemistry, anti-inflammatory uses may be established. As a member of the mint family it may also contain menthol and cineole, for which respiratory and analgesic properties may apply.

**MAJOR CHEMICAL CONSTITUENTS**

Aerial material of three species of *Prostanthera*, including *melissifolia*, was analyzed in the UK. Results show they contain three sesquiterpenes, two known compounds and a novel sesquiterpene, *prostantherol*. Two chemotypes exist: (a) one rich in piperitone (25-38%) and (b) rich in 1,8-cineole (15-33%). Minor amounts of alpha-pinene, linalool and limonene exist in each chemotype.

**MORE INFORMATION**

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**

Dellar JE, et al. *Phytochemistry*. 1994 Jul;36(4):957-60. Antimicrobial sesquiterpenes from *Prostanthera* aff. *melissifolia* and *P. rotundifolia*. Maguranyi SK, et al. *J Am Mosq Control Assoc*. 2009 Sep;25(3):292-300. Are commercially available essential oils from Australian native plants repellent to mosquitoes?

For references on specific topics please contact us.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Shaving and Post Wax Cleanser	Hand and Body Wash Massage Deodorant	Antimicrobial Natural mucolytic Athletes Foot Powder Natural Decongestant	Surface Disinfectant Cleaner Detergent	Perfume Aromatherapy Diffuser Mist Insect Repellent

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

## BUDDHA WOOD



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Buddha Wood Oil
<b>Botanical name:</b>	<i>Eremophila mitchellii</i>
<b>INCI:</b>	Eremophila Mitchellii Wood Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	1429902-59-9
<b>Part of Plant Used:</b>	Wood
<b>Appearance:</b>	Thick, red brown to dark brown mobile liquid
<b>Aroma:</b>	Tenacious, unique, smooth, woody oak
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Wild harvested
<b>Certifications:</b>	COSMOS



## THERAPEUTIC PROPERTIES

*Eremophila mitchellii* was named in 1848 by botanist George Bentham, after Sir Thomas Mitchell, who led the discovery expedition into Australia. No less than 17 species of *Eremophila* have roots in Aboriginal use. The species *mitchellii* is noted as having 'general medicinal purposes'.

*Eremophila mitchellii* occurs in the arid regions of New South Wales, Queensland and South Australia. The tree, very common in Western Queensland, is often confused with *Santalum lanceolatum* R. Br., both trees being commonly referred to as False Sandalwood. Initial research was done through the School of Pharmacy, Griffith University, Gold Coast campus, QLD, Australia. It is considered somewhat invasive, though native to Australia, with over 215 species.

The scented wood is burnt for its pleasant aroma. The oil has also been used for perfumery, bath, massage, diffuser, blending, and a perfume fixative. The rare sesquiterpene compounds lend anti-inflammatory properties to this rare and unique oil. This woody scented oil provides deep relaxation to body, mind and spirit. The eremophilanes reportedly inhibit P388D1 cancer cell growth *in vitro*.

## MAJOR CHEMICAL CONSTITUENTS

The wood oil is composed predominantly of eremophilanes, a rare class of biologically active bicyclic sesquiterpenoids. Its thick viscosity belies the main components of three closely related sesquiterpene ketones – eremophilone, 2-hydroxyeremophilone, and 2-hydroxyl-2-dihydroeremophilone. None of these components have been discovered before in nature.

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Barnes EC, et al. J Nat Prod. 2011 Sep 23;74(9):1888-93. Mitchellenes A-E, cyclic sesquiterpenes from the Australian plant *Eremophila mitchellii*. A Review of the use of *Eremophila* (Myopoiaceae) by Australian Aborigines.

For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Shaving and Post Wax	Hand and Body Wash	Wound Care	Surface Disinfectant	Perfume
Dermatitis	Massage	Diaper Rash	Cleaner	Aromatherapy
Acne	Lip Balm	Muscle Pain	Detergent	
		Antibacterial (gram +)		
		Feminine Care		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

**BLUE CYPRESS OIL**



**PRODUCT DETAILS**

**Product Name:** 100% Pure Australian Blue Cypress Oil  
**Botanical name:** *Callitris intratropica*  
**INCI:** Callitris Intratropica Wood Oil  
**HS Code:** 3301.29  
**UN Code:** 3082 (Class 9)  
**CAS No:** 187348-13-6  
**Part of Plant Used:** Wood and Bark  
**Appearance:** Clear blue liquid  
**Aroma:** Smoky, liquorice, woody characteristics  
**Extraction Method:** Steam distilled (water)  
**Farming Method:** Conventional  
**Certifications:** COSMOS



**THERAPEUTIC PROPERTIES**

Blue Cypress' beautiful color and therapeutic properties are resulting in this oil becoming more frequently used in the personal care and cosmetics industries. This Cypress family member contains quiazulene, providing anti-inflammatory properties offered in other blue oils such as yarrow, German chamomile and tansy. Blue Cypress Oil offers a middle to base note in fragrance blends, slowing the evaporation of top notes. It blends well with other wood notes and citrus scents.

Blue Cypress was a traditional medicine for thousands of years, lending credence to its current day uses. This native Australian tree was used as a skin wash for cuts and sores, to soothe abdominal cramping and as an analgesic and insect repellent. As a grounding base note, it is also useful for those of a nervous disposition, providing a calming and reassuring effect. An immune tonic, antibacterial and antiseptic, it helps treat and prevent infection.

This tropical conifer produces clear annual growth rings, and has been shown to be potentially useful for understanding past climate variability in northern Australia. Unique among ancient trees, this prehistoric aromatic offers soothing effects on body, mind and spirit.

"Anecdotal data has shown the oil to have good anti-inflammatory and pain-relieving properties against allergic hives, insects (like sand fly, bee, wasp, mosquito), rheumatoid arthritis, general joint pain and swelling. It has also been shown to be an anti-irritant, soothing nappy rash and reducing erythema in a small trial. The oil exhibits antiviral properties, being particularly effective against common warts (verruca), shingles (herpes zoster) and cold sores (herpes simplex). The oil also has been used for burns where it has significantly reduced the healing time and pain associated with the injury" (Webb).

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Shaving and Post Wax Dermatitis/Eczema	Lip Balm Massage	Wound Care Diaper Rash Muscle Pain Cold Sore Skin Warts Foot Spray		Perfume Aromatherapy

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**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include guaiol (12-26%). Checking last CoAs, the major chemical constituents are: guaiol (last results were 13-14%), bulnesol (last results were 12-13%) and dihydro columellarin (last results were 10-12%). Myrtenic acid is only around 2% of the total of constituents.

**MORE INFORMATION**

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**

Bowles, Joy. *The Chemistry of Aromatherapeutic Oils 2003*, Griffin Press, 5 Australia.  
 Drew DM, et al. *Tree Physiol.* 2011 Sep;31(9):953-64. The development of seasonal tree water deficit in *Callitris intratropica*.  
 Schnaubelt, Kurt. *Medical Aromatherapy*; Frog Ltd, 1999, Berkeley, CA.  
 Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.



## WHITE CYPRESS (LEAF)



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian White Cypress (Leaf) Oil
<b>Botanical name:</b>	<i>Callitris columellaris</i>
<b>INCI:</b>	Callitris Columellaris Leaf/Twig Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1197
<b>CAS No:</b>	192526-11-7
<b>Part of Plant Used:</b>	Leaves and Twigs
<b>Appearance:</b>	Clear, colorless to pale yellow mobile liquid
<b>Aroma:</b>	Cypress, camphor
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



## THERAPEUTIC PROPERTIES

White Cypress Oil is obtained via steam distillation from the leaves of *Callitris columellaris*. It blends well with citrus or floral notes, but may compete with other oils of strong odor personality.

The essential oil is relatively new on the commercial market, though its investigation began over a century ago. The timbers are hard and dense and are renowned for their resistance to the Australian termite population (due to the essential oil in the heartwood). It has been mainly used for fragrance and flavor, and aromatherapists prize it for its grounding and stabilizing properties to calm an agitated mind and body.

A 2007 research paper notes that 18 species and four subspecies of the leaf essential oils were investigated by the Australian government; all show applications as insecticides, antimicrobial agents and fragrances (Brody, et al.). These authors state that most of the published work on the genus *Callitris* has been on the extracts of the wood, but note that their research is the first document to investigate all known Australian species focused on the leaf oil. Little is written on the therapeutic properties of the leaf oil, though with the high proportion of limonene we can extrapolate that it could well have bile stimulating properties (Bowles). Its solvent qualities also point to applications for oily or clogged skin.

Use both the leaf and the wood oil sparingly from both a therapeutic and fragrance standpoint.

## MAJOR CHEMICAL CONSTITUENTS

Major constituents include  $\alpha$ -pinene (26-49%), limonene (18-30%), Bornyl acetate (4-12%) and  $\beta$ -caryophyllene (1-14%).

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Brody, et al. Chemistry of the Australian Gymnosperms. Part IX. The Leaf Oils of the Australian Members of the Genus *Callitris* (Cupressaceae). *J. Essent. Oil Res.*, 19, 57-71 (January/February 2007).  
Bowles, Joy; *The Chemistry of Aromatherapeutic Oils*, 2003. Allen & Unwin, NSW.  
Mark Webb; *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Cleanser	Hand and Body Wash		Surface Disinfectant Room Freshener Cleaner Detergent	Perfume Aromatherapy

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## WHITE CYPRESS (WOOD)



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian White Cypress (Wood) Oil
<b>Botanical name:</b>	<i>Callitris columellaris</i>
<b>INCI:</b>	None issued
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1197
<b>CAS No:</b>	192526-11-7
<b>Part of Plant Used:</b>	Wood and Bark
<b>Appearance:</b>	Colorless to pale yellow-green mobile liquid
<b>Aroma:</b>	Fresh eucalyptus, pine and mint
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



## THERAPEUTIC PROPERTIES

White Cypress Wood Oil is obtained via steam distillation from the wood of *Callitris columellaris*. It blends well with citrus or floral notes, but may compete with other oils of strong odor personality.

The essential oil is relatively new on the commercial market though its investigation began over a century ago. The timbers are hard and dense and are renowned for their resistance to the Australian termite population (due to the essential oil in the heartwood). It has been mainly used for fragrance and flavor, and aromatherapists prize it for its grounding and stabilizing properties to calm an agitated mind and body.

Use both the leaf and the wood oil sparingly from both a therapeutic and fragrance standpoint.

White Cypress Wood Oil obtained from the wood contains guaial, a known anti-inflammatory agent. The oil of this cypress family member is useful for skin conditions related to inflammation, such as swelling, bruising, rosacea, acne and rash. It is reputed to be antifungal, miticidal and insect repelling, with demonstrated activity against termites. Use the wood oil sparingly from both a therapeutic and fragrance standpoint.

## MAJOR CHEMICAL CONSTITUENTS

Major constituents include guaial (18-26%), eudesmols (5-14.6%), selinenes (1-5%), citronelic acid (3.5-14.5%) and 6-methyl-5-hepten-2-one (2.5-12.5%). The minor components include methyl geranate, dihydrocolumellarin, callitrisin and columellarin. Checking last batches, the major chemical constituents are: guaial (18-26%), eudesmols (5-14.6%), selinenes (1-5%), citronelic acid (3.5-14.5%). The minor components include: alpha-pinene, limonene and bulnesol. Recent CCW CoAs don't have 6-methyl-5-hepten-2-one (2.5-12.5%).

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Brody, et al. Chemistry of the Australian Gymnosperms. Part IX. The Leaf Oils of the Australian Members of the Genus *Callitris* (Cupressaceae). *J. Essent. Oil Res.*, 19, 57-71 (January/February 2007).  
Bowles, Joy; *The Chemistry of Aromatherapeutic Oils*, 2003. Allen & Unwin, NSW.  
Mark Webb; *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Shaving and Post Wax	Hand and Body Wash	Muscle Pain		Termite Retardant
Dermatitis/Eczema	Massage	Diaper Rash		Aromatherapy
	Lip Balm	Foot Spray		

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## EUCALYPTUS, AUSTRALIANA



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Eucalyptus Australiana Oil
<b>Botanical name:</b>	<i>Eucalyptus radiata</i>
<b>INCI:</b>	Eucalyptus Radiata Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1169
<b>CAS No:</b>	92201-64-4
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Clear, colorless to pale yellow mobile liquid
<b>Aroma:</b>	Eucalyptus aroma with slight citrus overtones
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional, Certified Organic
<b>Certifications:</b>	COSMOS, USDA NOP



## THERAPEUTIC PROPERTIES

The “king” of all Eucalyptus species – the aroma of Eucalyptus Australiana (*radiata*) is deep, round and penetrating. It is sometimes called Narrow Leaf Peppermint Gum or *Eucalyptus radiata* var. *Australiana*.

The monoterpene, terpene alcohol and cineole synergy of this essential oil make it a perfect combination for cold and flu. It has effective properties as a mucolytic and expectorant for many respiratory conditions through inhalation or topical use. It is useful in viral conditions as well as bacterial problems such as sinus infection. It is safe in children’s cold remedies used sparingly in the bath or as a chest rub. It is also good for treating inflammation of muscle and other tissue. It has many useful qualities as an antimicrobial agent.

The 1,8-cineol content increases the dermal absorption of other constituents in a blend by as much as 95 times. (Webb)

**1,8-cineole** – anti-bronchitic, anticatarrhal, antiseptic, antitussive, CNS-stimulant, expectorant, and respiratory anti-inflammatory.

**Alpha-pinene** – anti-inflammatory, cancer-preventive, can cause skin irritation to sensitive skin.

**Alpha-terpineol** – antiallergenic, anti-asthmatic, antiseptic, antitussive, bactericide, expectorant.

**Limonene** – anticancer, antiseptic, bactericide, cancer-preventive, expectorant, fungistatic, sedative, viricide.

## MAJOR CHEMICAL CONSTITUENTS

The major constituent is 1,8-cineole (>70%), as per ISO 3065:2011. The minor components include: limonene, alpha-terpineol, alpha-pinene.

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Battaglia, Salvatore. The Complete Guide to Aromatherapy; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
Schnaubelt, Kurt. Medical Aromatherapy; Frog Ltd, 1999, Berkeley, CA.  
Webb, Mark. Bush Sense; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Acne	Hand and Body Wash Massage Hair Care	Muscle Pain Diaper Rash Foot Spray Cold Relief Decongestant Expectorant	Surface Disinfectant Room Freshener Cleaner Detergent	Perfume Aromatherapy

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#### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Eucalyptus Oil
<b>Botanical name:</b>	<i>Eucalyptus polybractea</i>
<b>INCI:</b>	Eucalyptus Globulus Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1169
<b>CAS No:</b>	91771-67-4
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Clear, colorless to pale yellow liquid
<b>Aroma:</b>	Fresh camphor like
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional, Certified Organic
<b>Certifications:</b>	COSMOS, USDA NOP



#### THERAPEUTIC PROPERTIES

Eucalyptus (Blue Leaved Mallee) Oil is approved by the Personal Care Products Council (PCPC) as a valid alternative eucalyptus species to the more common 'globulus' eucalyptus. Our Eucalyptus Oil is produced in commercial quantities and offers reliability of quality and quantity. Our Eucalyptus Oil offers the advantage of achieving the 85% minimum 1,8 cineole levels with only one distillation – no redistillation, fractionation, or additional cineole is required to achieve the BP standard. More of the natural aromatic characteristics beyond cineole are retained by this attribute.

This mucolytic essential oil is often employed in respiratory blends and insect repellents, especially when combined with synergistic oils. It can be used externally combined with other therapies for urinary tract disorders. It is antiviral and antibacterial and useful in bath blends for cold and flu.

"1,8-cineole – antibronchitic, anticatarrhal, antiseptic, antitussive, CNS-stimulant, expectorant, and respiratory anti-inflammatory; used for the relief of head colds, rheumatism, muscular pain (in the form of liniments), and as expectorant in cases of bronchitis, added to cough syrups." (Webb)

#### MAJOR CHEMICAL CONSTITUENTS

The major constituent is 1,8-cineole (85%). The minor components include: cuminaldehyde and limonene.

#### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

#### REFERENCES

Battaglia, Salvatore. *The Complete Guide to Aromatherapy*; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
Boland, D.J. et al., *Eucalyptus Leaf Oils - Use, Chemistry, Distillation and Marketing*, Inkata Press, Melbourne (1991).  
Harden, G.J., *Flora of New South Wales, Volume 2*; New South Wales University Press, 1993.  
Schnaubelt, Kurt. *Medical Aromatherapy*; Frog Ltd, 1999, Berkeley, CA.  
Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

#### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Acne	Hand and Body Wash Massage	Muscle Pain Foot Spray Decongestant Expectorant	Surface Disinfectant Room Freshener Cleaner Detergent	Aromatherapy

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For references on specific topics please contact us.

## EUCALYPTUS, LEMON SCENTED



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Lemon Scented Eucalyptus Oil
<b>Botanical name:</b>	<i>Eucalyptus citriodora</i> (syn. <i>Corymbia</i> )
<b>INCI:</b>	Eucalyptus Citriodora Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	3082 (Class 9)
<b>CAS No:</b>	129828-24-6
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Colorless to pale yellow mobile liquid
<b>Aroma:</b>	Fresh, citronella-like
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



## THERAPEUTIC PROPERTIES

*Eucalyptus citriodora* is used in the perfume industry to manufacture other aroma chemicals, due to its rich citronellal content. Lemon Scented Eucalyptus also acts as a wonderful insect repellent, rivaling DEET in some products.

Carroll, et al. reported on a technique to produce para Menthane-3,8 diol (PMD) in large quantities from the essential oil of *Eucalyptus citriodora*. PMD is endorsed by the US Centers for Disease Control (CDC) as effective non-DEET repellent against mosquito species *Aedes*, *Anopheles*, *Culex*, and *Ochlerotatus*.

Psychologically it can be very soothing and calming. Physiologically it has antiseptic, analgesic, anti-inflammatory, insect repellent and sedative properties and could be considered useful for colds and infections,

athlete's foot, rheumatism and muscular aches and pains. It is generally considered non-toxic, non-irritating and non-sensitizing. It is often used as a fragrance component (instead of *Eucalyptus globulus*) in perfumes, detergents and soaps.

"Antiseptic, antiviral, bactericidal, antifungal, analgesic, hypertensive, deodorant, expectorant, insecticide" (Webb).

The significant amount of citronellal, in the functional family of aldehydes, offers significant sedation and anti-inflammatory effects. It has also been noted that *Eucalyptus citriodora* appears to have bacteriostatic activity towards *Staphylococcus aureus* due to synergism between citronellol and citronellal present in the oil.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Acne	Hand and Body Wash	Cold Relief	Surface Disinfectant	Insect Repellent
Facial Cleanser	Hair Care	Foot Spray	Room Freshener	Perfume
	Deodorant	Decongestant	Cleaner	Aromatherapy
	Massage	Expectorant	Detergent	

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

## MAJOR CHEMICAL CONSTITUENTS

The major constituent is citronellal (>75%), As per ISO 3065:2011. The minor components include: citronellol, limonene and linalool.

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Battaglia, Salvatore. *The Complete Guide to Aromatherapy*; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
 Carroll SP, Loye J, J Am Mosquito Control Assoc, 2006; PMD, A Registered Botanical Mosquito Repellent with DEET-like Efficacy, 22(3):507-514.  
 Mulyaningsih S, et al. *Pharm Biol.* 2011 Sep;49(9):893-9. Antibacterial activity of essential oils from *Eucalyptus* and of selected components against multidrug-resistant bacterial pathogens.  
 Schnaubelt, Kurt. *Medical Aromatherapy*; Frog Ltd, 1999. Berkeley, CA.  
 Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

**EUCALYPTUS, LEMON SCENTED IRON BARK**



**PRODUCT DETAILS**

**Product Name:** 100% Pure Australian Lemon Scented Iron Bark Eucalyptus Oil  
**Botanical name:** *Eucalyptus staigeriana*  
**INCI:** Eucalyptus Staigeriana Leaf Oil  
**HS Code:** 3301.29  
**UN Code:** 2319  
**CAS No:** 91771-69-6  
**Part of Plant Used:** Leaves and twigs  
**Appearance:** Clear, colorless to pale yellow liquid  
**Aroma:** Subtle, well rounded lemon aroma  
**Extraction Method:** Steam distilled (water)  
**Farming Method:** Conventional  
**Certifications:** COSMOS



**THERAPEUTIC PROPERTIES**

Also known as Australian Lemon Balm, *Eucalyptus staigeriana* was the traditional flavor ingredient for lemon cordial, an Australian drink similar to lemonade. It has been used in perfumery, toilet preparations, and some flavorings. Lemon Scented Iron Bark is also effective in masking odors. Its lemony scented profile provides a more pleasant aroma than other more ‘medicinal smelling’ Eucalyptus oils.

“The major components methyl geranate, geranyl acetate, and beta-phellandrene are all non-toxic, non-irritating. This essential oil has established uses in perfumery. The citral components are said to be anti-infectious, antiviral, antiseptic, expectorant, anti-inflammatory and a digestive stimulant” (Webb).

Published results from Wilkinson and Cavanagh (2005) demonstrate an exceedingly high in vitro zone of isolation result (>90mm) for Lemon Scented Iron Bark against Salmonella typhimurium.

Manufacturers looking for a unique eucalyptus product which does not exhibit the intense, medicinal notes of *Eucalyptus globulus* will find this oil appealing.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Acne	Hand and Body Wash	Wound Care	Surface Disinfectant Room Freshener Cleaner	Perfume Aromatherapy Strong anti-Sal. typhimurium Preservative
			Detergent Bathroom	

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**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include linalool (30-50%) and citral (20-42%). Major constituents include linalool ( minimum 1%) and citral (20-45%).

**MORE INFORMATION**

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**

Webb, Mark. Bush Sense; Griffin Press 2000; Adelaide, Australia. Wilkinson, JM, Cavanaugh HMA. 2005. Antibacterial Activity of Essential Oils from Australian Native Plants, Phyto Res. 19:643-6.

For references on specific topics please contact us.

## EUCALYPTUS, PEPPERMINT GUM



### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Eucalyptus Peppermint Gum Oil
<b>Botanical name:</b>	<i>Eucalyptus dives</i>
<b>INCI:</b>	Eucalyptus Dives Leaf/ Twig Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1169
<b>CAS No:</b>	90028-48-1
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Clear, colorless to pale yellow mobile liquid
<b>Aroma:</b>	Typical eucalyptus aroma with minty undertones
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



### THERAPEUTIC PROPERTIES

Peppermint Gum is recommended primarily for respiratory infections. It is used with equal parts Tea Tree and Lavender Tea Tree (Rosalina) for an aromatic profusion blend for direct application to the chest and back of sufferers of chronic bronchitis or acute bronchial infection. Helps to slow breathing, useful in anti-asthma applications, and is a bronchial dilator. It is also useful for unproductive coughs.

Synthetic menthol is derived from the piperitone of this chemotype. Combines well with other Australian oils such as Kunzea, Lemon Myrtle, and Rosalina for an effective respiratory blend.

- piperitone** – a ketone known to be anti-asthmatic and herbicidal
- 1,8-cineole** – anti-bronchitic, antiseptic, antitussive, CNS-stimulant, expectorant, and respiratory anti-inflammatory
- alpha-pinene** – anti-inflammatory, cancer-preventive, can cause skin irritation to sensitive skin
- alpha-phellandrene** – said to be hyperthermic and can irritate skin, readily absorbed via skin, ingestion may cause vomiting and diarrhea, also a known insectiphile
- para-cymene** – is known to be antifungal, antiviral, anti-flu, analgesic, anti-rheumatic, fungicidal, insectifugal” (Webb).

### MAJOR CHEMICAL CONSTITUENTS

Major constituents include piperitone (30-60%) and  $\alpha$ -phellandrene (19-35%).

### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

### REFERENCES

Battaglia, Salvatore. The Complete Guide to Aromatherapy; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
 Schnaubelt, Kurt. Medical Aromatherapy; Frog Ltd, 1999, Berkeley, CA.  
 Webb, Mark. Bush Sense; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Acne		Decongestant Expectorant		Perfume Aromatherapy Insecticidal Potential

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

## EUCALYPTUS, GULLY GUM



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Eucalyptus White Iron Bark Oil
<b>Botanical name:</b>	<i>Eucalyptus smithii</i>
<b>INCI:</b>	Eucalyptus Smithii Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1169
<b>CAS No:</b>	91771-68-5
<b>Part of Plant Used:</b>	Leaves
<b>Appearance:</b>	Colorless to pale yellow mobile liquid
<b>Aroma:</b>	Characteristic eucalyptus aroma, slightly milder
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



## THERAPEUTIC PROPERTIES

Gully Gum (*Eucalyptus smithii*) typically contains 65-70% of 1,8 cineole, accentuating its expectorant and antimicrobial properties. It has a warming effect on the muscles and can be used to increase circulation for pain or lethargy. Used for the relief of head colds, rheumatism, muscular pain and as an expectorant in cases of bronchitis or other lung congestion.

This species is considered best for children (over 3), the elderly, or for longer term use due to its lower cineole content. It has been studied with positive results for inhalation treatment of chronic and/or recurrent upper respiratory tract infections.

"1,8-cineole – anti-bronchitic, anticatarrh, antiseptic, antitussive, CNS-stimulant, expectorant, and respiratory anti-inflammatory" (Webb).

## MAJOR CHEMICAL CONSTITUENTS

The major constituent is 1,8-cineole (minimum 70%). The minor components include: alpha-pinene, limonene and alpha-terpineol.

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Battaglia, Salvatore. The Complete Guide to Aromatherapy; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
Bowles Joy. The Chemistry of Aromatherapeutic Oils; Allen & Unwin 2003; NSW Australia.  
Camporese, A., In vitro activity of *Eucalyptus smithii* and *Juniperus communis* essential oils against bacterial biofilms and efficacy perspectives of complementary inhalation therapy in chronic and recurrent upper respiratory tract infections. *Infect. Med.* 2013 Jun 1;21(2):117-124.  
Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Fungal Acne	Hand and Body Wash	Cold Relief		Perfume
Jock Itch	Massage	Muscle Pain		Aromatherapy
		Decongestant		
		Athletes Foot		
		Ringworm		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.



**EUCALYPTUS, STRAWBERRY GUM**



**PRODUCT DETAILS**

<b>Product Name:</b>	100% Pure Australian Strawberry Gum Oil
<b>Botanical name:</b>	<i>Eucalyptus olida</i>
<b>INCI:</b>	None issued
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	3082 (Class 9)
<b>CAS No:</b>	None issued
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	White to translucent crystalline
<b>Aroma:</b>	Sweet, balsamic with fruity undertones, reminiscent of cinnamon and strawberry
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



**THERAPEUTIC PROPERTIES**

*Eucalyptus olida*, commonly known as Strawberry gum is a fairly unusual essential oil, not commonly found on the commercial market. *Eucalyptus olida* was initially wild harvested, but plantations now supply the current industry demand. Technically a resin at room temperature rather than an oil, it contains over 98% methyl cinnamate.

Methyl cinnamate, an aromatic ether, is found in a variety of fruits and herbs such as tarragon, Sichuan pepper, galangal and some species or varieties of basil. Methyl cinnamate is the methyl ester of cinnamic acid. Research shows it has high antioxidant activity.

This essential oil, derived from the leaf of *Eucalyptus olida* is used in flavoring and perfumery. The whole leaf is used as a dried spice product in bush food cooking, especially with fruit and in herbal teas. In the Australian native foods industry several trade names are used, including 'olida' and 'forestberry herb'. It may be employed as a digestive aid with therapeutic properties offering a balancing, anti-spasmodic, sedative activity for the nervous system, and for conditions of anxiety and depression.

**MAJOR CHEMICAL CONSTITUENTS**

The major constituent is methyl cinnamate (>95%).

**MORE INFORMATION**

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**

Boland, D.J., Brophy, J.J., and A.P.N. House, *Eucalyptus Leaf Oils*, 1991.  
 PlantNET, NSW Flora Online, *Eucalyptus olida* profile.  
 Coppen, John; *Eucalyptus: The Genus Eucalyptus*. CRC Press 2004.  
 Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia.  
 Zhao, J., Agboola, S., *Functional Properties of Australian Bushfoods - A Report for the Rural Industries Research and Development Corporation*, 2007, RIRDC Publication No 07/030.

For references on specific topics please contact us.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
	Lip Balm			Perfume Aromatherapy Flavouring Food Preserving Anti-aflatoxin Potential

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.



#### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Fragonia® Oil
<b>Botanical name:</b>	<i>Agonis fragrans</i>
<b>INCI:</b>	Agonis Fragrans Branch/Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1169 (Class 3)
<b>CAS No:</b>	934621-96-2
<b>Part of Plant Used:</b>	Terminal branches
<b>Appearance:</b>	Colorless to pale yellow liquid
<b>Aroma:</b>	Fresh, cineolic odor with slight spicy cinnamon tonality and sweet balsamic undertones
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



#### THERAPEUTIC PROPERTIES

Fragonia is a 100% pure essential oil originating in Western Australia and now grown at our farm, Buhlambar.

Of particular interest, the constituents of the oil comprise 3 main functional groups – monoterpenes, an oxide, and monoterpenols – which are in near perfect balance. It is this balance that caught the attention of Dr. Penoel, one of the world's foremost experts on aromatherapy and essential oils.

When first experiencing this oil in 2008, Dr Penoel referred to Fragonia's structure as having the "Golden Triangle" – the symbol of balance and harmonization.

Fragonia is the result of years of efforts by Western Australian essential oil pioneers John and Peta Day, who identified the plant *Agonis fragrans* as having excellent potential as the basis for a new essential oil. Following much painstaking research and field studies of this native Australian plant, the Day's identified the variety with the most attractive aromatic properties. It is this variety that they named Fragonia and established its trademark.

They initiated propagation activities, produced the essential oil from the terminal branches, and began sharing the benefits of this plant with the world. The pleasing aroma makes it an effective substitute for those wanting to avoid Tea Tree Oil. Anecdotally, Fragonia may relieve jet lag.

Traditional Chinese Medicine characterizes this oil as being balancing to both overly yin and yang conditions.

#### MAJOR CHEMICAL CONSTITUENTS

Major constituents include 1,8-cineole (25-35%),  $\alpha$ -pinene (20-30%), linalool (8-15%) and  $\alpha$ -terpineol (5-8%).

#### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Acne	Hair Care	Muscle Pain	Room Freshener	Perfume
Cleanser	Oral Care	Foot Spray	Detergent	
	Feminine Care	Diaper Rash		
	Lip Balm	Wound Healing		
	Massage	Respiratory		
	Deodorant	Antiseptic		
		Decongestant		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

#### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

#### REFERENCES

Penoel, Daniel, MD. Interview for ABP (Australian Botanical Products) Newsletter, Oct. 22, 2011.  
Webb, Mark; Bush Sense; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

## HONEY MYRTLE



### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Honey Myrtle Oil
<b>Botanical name:</b>	<i>Melaleuca teretifolia</i>
<b>INCI:</b>	Melaleuca Teretifolia Branch/Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	3082 (Class 9)
<b>CAS No:</b>	1030313-70-2
<b>Part of Plant Used:</b>	Terminal branches
<b>Appearance:</b>	Colorless to pale yellow liquid
<b>Aroma:</b>	Sweet, fresh & sparkling citrus character with slight herbaceous twist
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



### THERAPEUTIC PROPERTIES

Sometimes called 'Banbar' or "Marsh Honey Myrtle" this relative of Tea Tree is native to Southwestern Australia. The genus name derivation is quite interesting: *Melaleuca* from the Greek "melas", meaning black and "leukos", meaning white; referring to black marks on the white trunks of some species due to fire. The species name, *teretifolia*, is from Latin "teres", meaning rounded; and "folius" meaning leaf, referring to the leaves of this species which are round in cross section.

In perfumery it is considered a top to middle note scent and blends well with citrus and herbaceous aromas.

An aged oil can contribute to irritancy. This essential oil is best stored in cold conditions for extending the shelf life to about three years. Its attributes include being useful against microbes, bacteria, fungus, and viruses. Unlike its relatives, Tea Tree, Niaouli and Lavender Tea Tree (Rosalina), this unique oil has the highest citral content of all the Melaleucas, contributing to its antimicrobial and antifungal activity. Like other oils prevalent with the constituent 1,8 cineole, Honey Myrtle is also an effective antimicrobial, especially for respiratory problems. As with many other Australian oils this is a good insecticide ingredient. It can also be used for skin problems, without fear of photosensitizing compounds found in citrus oils, especially cold pressed lemon oil. As a citrus note, its aroma is uplifting to body, mind and spirit. It can help invigorate and overcome lethargy while lightening the mood.

### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Cleanser	Deodorant	After Bite Creams		Preservative
Face Mask	Scalp Treatment	Antifungal Preparations		Perfume
		Antiseptic		Aromatherapy
		Wound Care		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

### MAJOR CHEMICAL CONSTITUENTS

The major constituent is citral (>50%).

### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

### REFERENCES

Bowles, Joy. *The Chemistry of Aromatherapeutic Oils*, 2003; Griffin Press, S Australia.  
 Hendry ER, et al. *J Antimicrob Chemother.* 2009 Dec; 64(6):1219-25. Antimicrobial efficacy of eucalyptus oil and 1,8-cineole alone and in combination with chlorhexidine digluconate against microorganisms grown in planktonic and biofilm cultures. Southwell, Ian A, et al. *Journal of Essential Oil Research* Sep2003, Vol. 15 Issue 5, p339. *Melaleuca teretifolia* Chemovars: New Australian Sources of Citral and 1,8-Cineole.

For references on specific topics please contact us.



#### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Kunzea Oil
<b>Botanical name:</b>	<i>Kunzea ambigua</i>
<b>INCI:</b>	Kunzea Ambigua Branch/Leaf/Twig Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1169 (Class 3)
<b>CAS No:</b>	97553-36-1
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Pale yellow mobile liquid
<b>Aroma:</b>	Pleasant scent with clean, fresh invigorating undertones
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Wildcrafted and Conventional
<b>Certifications:</b>	COSMOS



#### THERAPEUTIC PROPERTIES

Native to Northern Tasmania, traditional uses of Kunzea include treatment of ticks and other mites, insects, etc., hence the common name of Tick Bush.

The chemical composition allows for deep and effective dermal penetration. Spot application of undiluted oil is generally well tolerated and useful for insect bites, cuts, and minor burns, producing immediate relief from pain, itching and irritation. It is useful in conditions of inflammation or respiratory problems. This relaxing essential oil reduces stress and mild anxiety or depression. It can provide relief from flu symptoms and is used to treat eczema and other skin conditions.

Microbial testing showed effective activity against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *E. coli*, and *Candida albicans*. A research paper from the UK showed insecticidal activity comparable to natural pyrethrum extract.

“Anecdotal feedback from users of the oil has shown it to be helpful in the treatment of the following conditions: eczema, dermatitis, rash, under nail infections and leg ulcers, and most helpful for the treatment of chilblains. The oil has also been found to ease the pain from insect bites, minor burns, recurring shingles and migraine, headache. (Webb).

The Australian Therapeutic Goods Administration (TGA) has listed Kunzea (ID 99794) on its Register of Approved Ingredients as an active ingredient for topical and inhalation use in: Listed Medicines, Over the Counter, and Prescription Medicines.

Various sponsors have obtained approval of products containing Kunzea Ambigua as a Listed Medicine on the Australian Register of Therapeutic Goods (ARTG) for indications including: temporary relief of joint inflammation, pain, swelling and

aches associated with mild arthritis, relief of influenza symptoms; relief of muscular aches and pains; assistance with joint mobility in mild arthritis and osteoarthritis, stress and mild anxiety, assistance with nervous tension, nerve pain and mild neuralgia, toenail fungal infections, management of eczema and dry skin and temporary relief of rheumatism pain.

#### MAJOR CHEMICAL CONSTITUENTS

Major constituents include  $\alpha$ -pinene (35-65%), 1,8-cineole (10-25%), globulol (1-15%) and viridifloral (5-20%).

#### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

#### REFERENCES

Khambay BP, et al. Chemistry. 2002 Jan;59(1):69-71. An insecticidal mixture of tetramethylcyclohexenedione isomers from *Kunzea ambigua* and *Kunzea baxterii*.  
 Penoel, Daniel, MD. Dr. Daniel Penoel's Newsletter, August 15th 2007.  
 Webb, Mark. Bush Sense; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

#### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Dermatitis/Eczema	Feminine Care	Wound Care	Room Freshener	Tick Repellent
Shaving & Post Wax	Massage	Muscle Pain		Perfume
		Diaper Rash		Aromatherapy
		Decongestant		
		Joint Pain		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.



#### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Lavender Oil
<b>Botanical name:</b>	<i>Lavandula angustifolia</i>
<b>INCI:</b>	Lavandula Angustifolia (Lavender) Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	3082 (Class 9)
<b>CAS No:</b>	8000-28-0
<b>Part of Plant Used:</b>	Fresh flowering tops
<b>Appearance:</b>	Clear, colorless to pale yellow mobile liquid
<b>Aroma:</b>	Sweet floral herbaceous note with balsamic woody undertones
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Our Certifications:</b>	COSMOS



#### THERAPEUTIC PROPERTIES

Lavender has a well-deserved reputation as being the most versatile and popular essential oil. It is often considered the ‘mother’ of all essential oils and its use dates back to the beginning of recorded history.

While the Lavender from Down Under Enterprises is our only non-native Australian species – it is a true French Lavender (*Lavandula angustifolia*) – we absolutely love this Lavender and have adopted it as our own because it’s been grown in Australia for so long.

Established in Tasmania in 1923, the Lavender farm was created using seeds from France which were specifically selected as the “best of the best” of French varieties. Since then, no hybridization has occurred, due to the isolation of this farm in Tasmania, Experts have applauded this ‘true French lavender’ as being of the highest quality in the world. This Australian Lavender is

characterized by its little to no cineole or camphor content, giving it a dominant floral scent, and making it extra gentle on the skin.

PubMed lists nearly 1,800 research papers on this essential oil; clearly well studied for its therapeutic potential. Its antidepressant and anti-anxiety research is well known. Cosmetically, there is no skin condition for which it is not useful, from acne and rash to diaper irritation and sun damage. Insect itching and swelling stops almost immediately upon application.

A French study compared Lavender with four other essential oils and found that Lavender was the only oil to consistently elicit a feeling of ‘happiness’. When these factors are combined with the benefits of touch, as with massage, it is especially effective in reducing stress, a major trigger for many health problems. Lavender oil is active against many species of bacteria and fungi,

due to the geraniol and linalool, aromatic constituents of the oil. The calming effects are attributed to the abundant esters.

#### MAJOR CHEMICAL CONSTITUENTS

Major constituents include linalool (25-38%) and linalyl acetate (25-45%), as per ISO 3515:2002. The minor components include 1,8-cineole, lavandulol and lavandulyl acetate.

#### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

#### REFERENCES

Battaglia, Salvatore. *The Complete Guide to Aromatherapy*; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
de Rapper, S, et al. *The In vitro Antimicrobial Activity of Lavandula angustifolia Essential Oil in Combination with Other Aroma-therapeutic Oils. Evid Based Complement Alternat Med.* 2013;2013:852049.  
Schnaubelt, Kurt. *Medical Aromatherapy*; Frog Ltd, 1999. Berkeley, CA.  
Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

#### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Shaving and Post Wax	Hand and Body Wash	Wound Care	Surface Disinfectant	Perfume
Dermatitis/Eczema	Hair Care	Diaper Rash	Room Freshener	Aromatherapy
Moisturizer	Feminine Care	Muscle Pain	Cleaner	
Acne	Deodorant	Foot Spray	Detergent	
Cleanser	Massage			

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## LEMON MYRTLE



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Lemon Myrtle Oil
<b>Botanical name:</b>	Backhousia citriodora
<b>INCI:</b>	Backhousia Citriodora Leaf Oil
<b>HS Code:</b>	3301.29
<b>CAS No:</b>	84775-80-4
<b>UN Code:</b>	3082 (Class 9)
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Clear light yellow, mobile liquid
<b>Aroma:</b>	Lemon, fresh, zesty and uplifting
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	USDA, COSMOS, Halal



## THERAPEUTIC PROPERTIES

Research published in 2003 showed that Lemon Myrtle (*Backhousia citriodora*) offers significant antibacterial and antifungal activity against seven bacteria and MRSA. Also cited is its potential as an antiseptic or surface disinfectant or for inclusion in foods as a natural antimicrobial agent, even noting its superiority to Tea Tree Oil. A 2002 research paper investigated the antimicrobial and toxicological properties of Lemon Myrtle. It was shown to possess significant antimicrobial activity against the organisms *Staphylococcus aureus*, *Esche richia coli*, *Pseudomonas aeruginosa*, *Candida albicans*, *methicillin-resistant S. aureus (MRSA)*, *Aspergillus niger*, *Klebsiella pneumoniae* and *Propionibacterium acnes* comparable to its major component-citral. This paper also noted that a product containing 1% Lemon Myrtle Oil was found to be low in toxicity and could potentially be used in the formulation of topical antimicrobial products.

Follow up research by the same authors was done in 2003, wherein they studied the *in vitro* percutaneous absorption of the essential oil of Lemon Myrtle. Though further research is needed, the combination of the methodologies used enabled the generation of data that could be applied for a comprehensive evaluation of the toxicity effects of Lemon Myrtle Oil for topical application.

“Therapeutically, citral has been shown to exhibit sedative, antibacterial, antiseptic, antiviral, and antifungal properties. Aldehydes and particularly citral have long been considered to have anti-tumour properties, though the few studies carried out have proven to be inconclusive.” (Webb).

This oil is a very effective anti-microbial, possessing excellent bactericidal (gram positive and negative) properties which

support its potential use as a 100% natural cosmetic preservative. Extensive studies are underway to determine its suitability for this application.

## MAJOR CHEMICAL CONSTITUENTS

The major constituent is citral (>85%).

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Hayes AJ, Markovic B. Food Chem Toxicol. 2002 Apr;40(4):535-43. Toxicity of Australian essential oil *Backhousia citriodora* (Lemon Myrtle). Part 1. Antimicrobial activity and *in vitro* cytotoxicity. Hayes AJ, Markovic B. Food Chem Toxicol. 2003 Oct;41(10):1409-16. Toxicity of Australian essential oil *Backhousia citriodora* (Lemon Myrtle). Part 2. Absorption and histopathology following application to human skin. Webb, Mark; Bush Sense; Griffin Press 2000; Adelaide, Australia. Wilkinson, JM, et al. J Agric Food Chem 2003 Jan 1;51(1):76-81. Bioactivity of *Backhousia citriodora*: antibacterial and antifungal activity.

For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Acne	Hand and Body Wash	Foot Spray	Surface Disinfectant	Preservative
Cleanser	Hair Care		Room Freshener	Perfume
	Oral Care		Cleaner	Aromatherapy
	Lip Balm		Detergent	
	Deodorant			

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**PRODUCT DETAILS**

**Product Name:** 100% Pure Manuka Oil (Standard & Premium Grades)  
**Botanical name:** *Leptospermum scoparium*  
**INCI:** Leptospermum Scoparium Branch/Leaf Oil  
**HS Code:** 3301.29  
**UN Code:** Non-Hazardous  
**CAS No:** 2198-28-87-2  
**Part of Plant Used:** Leaves and terminal branches  
**Appearance:** Clear yellow, slightly viscous oil  
**Aroma:** Spicy, herbaceous and fresh  
**Extraction Method:** Steam distilled (water)  
**Farming Method:** Wildcrafted (Premium Grade); Conventional (Standard Grade)  
**Certifications:** COSMOS



**THERAPEUTIC PROPERTIES**

Manuka oil is considered the ‘Tea Tree’ of New Zealand where its antimicrobial properties are well established. It has a history of use by the indigenous population; the Maori tribe used it for wounds, cuts, sores and skin diseases. Manuka honey has legendary therapeutic properties; especially researched for immunity, wound healing and resistant ulcerations.

Manuka oil is useful for its analgesic, antibacterial (especially and exceedingly so for gram negative bacteria), antifungal, anti-inflammatory, deodorant, expectorant, immune tonic, insecticidal and sedative properties. Though the gram positive antibacterial properties are slightly lower for this oil than for Tea Tree, it more than compensates with a more pleasing fragrance profile while maintaining many similar uses. It treats most skin disorders including

ringworm, athlete’s foot, acne, ulcers, wounds, cuts and abrasions. It is good for bites and stings and has the ability to reduce irritation and promote wound healing.

Manuka oil is recommended for muscle aches, arthritic discomfort and pain. It benefits all disorders of the respiratory system including cough, and cold and flu mediation. It is especially suited to sensitive individuals who present with digestive disorders or sensitive skin conditions. It is said to balance the sympathetic and parasympathetic nervous systems. There are over 30 studies in PubMed on this botanical species, much focused on the immune-stimulant and antibacterial properties of the honey, including its efficacy against *Staphylococcus aureus*. The use of the essential oil has also been studied *in vitro* against herpes simplex I and II with effective results.

**MAJOR CHEMICAL CONSTITUENTS**

Down Under offers two grades of this essential oil: Standard and Premium. Standard grade is characterized by triketone levels <25%, while the prized but limited supply of Premium grade offers triketone levels >25%. This oil is decidedly anti-inflammatory with a broad range of other compounds, none of which individually dominate.

**MORE INFORMATION**  
 This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Shaving & Post Wax	Hand and Body Wash	Wound Care	Surface Disinfectant	Insecticide
Acne	Hair Care	Muscle Pain	Detergent	Aromatherapy
Cleanser	Oral Care	Foot Spray		Strong Antibacterial (gram +)
	Deodorant	Diaper Rash		
	Massage	Cold Sore		
		Decongestant		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

**REFERENCES**  
 Battaglia, Salvatore. The Complete Guide to Aromatherapy; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
 Costa R, et al. Nat Prod Commun. 2010 Nov;5(11):1803-8. Volatiles from steam-distilled leaves of some plant species from Madagascar and New Zealand and evaluation of their biological activity.

For references on specific topics please contact us.



#### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Nerolina Oil
<b>Botanical name:</b>	<i>Melaleuca quinquenervia</i> (LN chemotype)
<b>INCI:</b>	Melaleuca Quinquenervia Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	3082 (Class 9)
<b>CAS No:</b>	8014-68-4
<b>Part of Plant Used:</b>	Leaves and terminal branches
<b>Appearance:</b>	Clear, colorless to pale yellow liquid
<b>Aroma:</b>	Floral, fragrant Eucalyptus
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Wildcrafted
<b>Certifications:</b>	COSMOS



#### THERAPEUTIC PROPERTIES

The essential oil from Australian Nerolina (*Melaleuca quinquenervia*) is a fresh and floral variant of the same species as the more common Niaouli is derived. This Australian native chemotype produces an aroma with a soft, floral, lavender-like yet herbaceous freshness.

A member of the Melaleuca (Tea Tree) family, this tree is commonly known as a broad-leaved paperbark. The leaves are much wider than that of the better known Tea Tree (*Melaleuca alternifolia*), while the peeling paper-like bark was traditionally used by local Aboriginal communities for many purposes, including cooking.

Therapeutically, this plant offers anti-microbial properties, although not as potent as *Melaleuca alternifolia*. However, individuals may find the floral, less medicinal aroma preferable to the more common Tea Tree.

Amer *et al.* reported on the potential use of *M. quinquenervia* as an effective natural insect repellent. The authors investigated 41 plant extracts and oil combinations. They identified the oil of *Melaleuca quinquenervia* as one of the five most effective from the panel. They cited efficacy of up to 8 hours against the mosquito species *Aedes*, *Anopheles*, and *Culex*. However, they did note that a special formulation is required to fix the oil to the skin effectively.

#### MAJOR CHEMICAL CONSTITUENTS

Major constituents include trans-nerolidol (42-60%), limonene (0.5-8%), linalool (25-45%), and 1-8 cineole (2-6%).

#### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

#### REFERENCES

Amer A, Mehlhorn H; Repellency effect of forty-one essential oils against *Aedes*, *Anopheles*, and *Culex* mosquitoes; Parasitol Res; 478-90; 2006.  
Cock IE, Winnett V, Sirdaarta J, Matthews B; The potential of selected Australian medicinal plants with anti-Proteus activity for the treatment and prevention of rheumatoid arthritis; Pharmacogn Mag; S190-208; May, 2015.

For references on specific topics please contact us.

#### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Cleanser	Hand and Body Wash	Feminine Care Jock Itch Ringworm Athletes Foot		Antifungal Properties Perfume Aromatherapy

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#### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Niaouli Oil
<b>Botanical name:</b>	<i>Melaleuca quinquenervia</i> (CT chemotype)
<b>INCI:</b>	Melaleuca Quinquenervia Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	1169
<b>CAS No:</b>	8014-68-4
<b>Part of Plant Used:</b>	Leaves and terminal branches
<b>Appearance:</b>	Clear, colorless to pale yellow liquid
<b>Aroma:</b>	Cineole, Eucalyptus
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Our Certifications:</b>	COSMOS



#### THERAPEUTIC PROPERTIES

The essential oil from Australian Niaouli (*Melaleuca quinquenervia*, CT chemotype) is quite different from that of the New Caledonian, Indonesian, or other regions where this tree has been commercialized. The Australian chemotype produces an aroma with a rich, minty, eucalyptus-like freshness.

A member of the Melaleuca (Tea Tree) family, this tree is commonly known as a broad-leaved paperbark. The leaves are much wider than that of the better known Tea Tree (*Melaleuca alternifolia*), while the peeling paper-like bark was traditionally used by local Aboriginal communities for many purposes, including cooking.

Therapeutically, this plant offers anti-microbial properties, although not as potent as *Melaleuca alternifolia*. However, individuals may find the less medicinal aroma preferable to the more common Tea Tree.

Interestingly, this species is considered a noxious weed in the Florida Everglades. It has adapted exceedingly well in that climate, developing seed germination rates 3-4 times greater than what occurs in Australia. Extensive research is underway to limit the spread of this unwelcome arrival in Florida. No such status exists for this plant in Australia, where natural predators limit the growth and new germination rates.

Amer *et al.* reported on the potential use of Niaouli as an effective natural insect repellent. The authors investigated 41 plant extracts and oil combinations. They identified the oil of *Melaleuca quinquenervia* (CT chemotype) as one of the five most effective from the panel. They cited efficacy of up to 8 hours against the mosquito species *Aedes*, *Anopheles*, and *Culex*. However, they did note that a special formulation is required to fix the oil to the skin effectively.

#### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Acne	Shampoo Massage	Decongestant Expectorant Muscle Pain	Surface Disinfectant Room Freshener Detergent	Aromatherapy Perfume Insecticidal Antiprotozoal

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#### MAJOR CHEMICAL CONSTITUENTS

Major constituents include is 1,8-cineole (50-60%). The minor components include: limonene and terpinen-4-ol and (gamma as symbol)-terpinene.

#### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

#### REFERENCES

Amer A, Mehlhorn H; Repellency effect of forty-one essential oils against *Aedes*, *Anopheles*, and *Culex* mosquitoes; *Parasitol Res*; 478-90; 2006.  
Cock IE, Winnett V, Sirdaarta J, Matthews B; The potential of selected Australian medicinal plants with anti-Proteus activity for the treatment and prevention of rheumatoid arthritis; *Pharmacogn Mag*; S190-208; May, 2015.

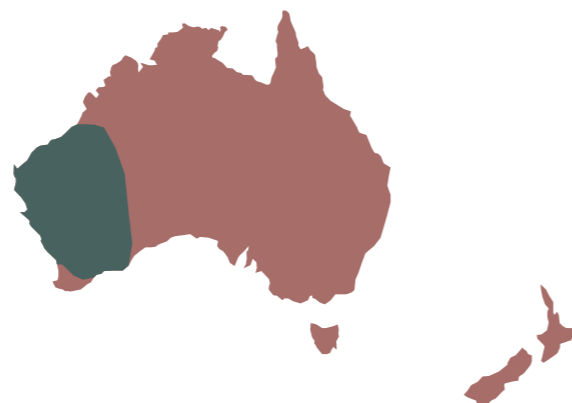
For references on specific topics please contact us.

## AUSTRALIAN SANDALWOOD



### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Sandalwood Oil Standard and Premium Grades)
<b>Botanical name:</b>	<i>Santalum spicatum</i> (syn. <i>Fusanus spicatus</i> )
<b>INCI:</b>	Santalum Spicatum Wood Oil (syn. Fusanus Spicatus Wood Oil)
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	92875-02-0
<b>Part of Plant Used:</b>	Wood
<b>Appearance:</b>	Pale yellow to golden brown
<b>Aroma:</b>	Sweet, soft woody
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional, Wild Harvested
<b>Certifications:</b>	COSMOS, USDA NOP, Halal



### THERAPEUTIC PROPERTIES

Australian Sandalwood now accounts for over 80% of the world's sandalwood supplies. These reserves are carefully and sustainably managed by the Western Australian government through annual harvest quotas and extensive regeneration efforts.

The essential oil comes from the heartwood of the tree. The Australian Sandalwood Tree must be more than 20 years old to develop the heartwood necessary for good quality oil. This contrasts to the Indian Mysore Sandalwood which requires at least 30 years to achieve the same quality.

Research by Sydney University has shown that WA Sandalwood has anti-inflammatory properties in-line with the traditionally used East Indian Sandalwood. Anti-inflammatory properties have been attributed to alpha-bisabolol and the WA Sandalwood contains

higher amounts of alpha-bisabolol (5-10%) than East Indian Sandalwood Oil. *Santalum spicatum* also contains beta-santalene (generally less than 1%), another component that has demonstrated anti-inflammatory properties. It is especially suited to the treatment of hot, red skin conditions such as eczema, psoriasis, rash or other inflammation. It has a long historic association with the treatment of urinary tract infections. It is astringent and helps resolve respiratory congestion, and is especially useful when soothing, demulcent effects are required, such as in chronic bronchitis involving dry cough. It is also a lymphatic decongestant, specific for stasis such as varicose veins and swollen.

### MAJOR CHEMICAL CONSTITUENTS

"If a comparison of the chemical constituents of West Australian (WA) Sandalwood Oil (*S. spicatum*) with East Indian Sandalwood (*S. album*) is made, both are extracted from the heartwood and rootball of the species and it can be seen that they are similar chemically, they both contain alpha and beta santalol. WA Sandalwood Oil contains higher levels of farnesol and alpha-bisabolol than East Indian oil. Both these compounds have been demonstrated to have antimicrobial and anti-inflammatory properties." (Webb).

### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

### REFERENCES

Battaglia, Salvatore. *The Complete Guide to Aromatherapy*; International Center for Holistic Aromatherapy, 2003; Brisbane, Australia.  
 Schnaubelt, Kurt. *Medical Aromatherapy*; Frog Ltd, 1999. Berkeley, CA.  
 Webb, Mark; *Bush Sense*; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Dry and Inflamed Skin	Feminine Care	Diaper Rash		Insect Repellent
Shaving & Post Wax	Hair Care	Muscle Pain		Stress Reduction
Acne	Bath Salts	Foot Spray		Air Diffusion
Moisturizer	Deodorant	Cold Sores		Perfume
Eczema	Massage	Respiratory		Aromatherapy
		Antiviral		

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## INDIAN SANDALWOOD



### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Sandalwood (Indian) Oil
<b>Botanical Name:</b>	<i>Santalum album</i>
<b>INCI:</b>	Santalum Album Wood Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	8006-87-9 / 84787-70-2
<b>Part of Plant Used:</b>	Wood
<b>Appearance:</b>	Pale yellow to golden brown
<b>Aroma:</b>	Sweet, soft
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS, USDA NOP



### THERAPEUTIC PROPERTIES

Commonly referred to as 'Old Mountain' Sandalwood, Indian Sandalwood (*Santalum album*) is perhaps the most revered medicine of ancient times. It was first recorded as a medicine in the Charaka Samhita, the first documented Ayurveda materia medica. Modern science has recognized Sandalwood for its antimicrobial, antiviral, and anti-inflammatory properties.

Misra and Dey (2012) reported the MIC against *S. aureus* as 0.087, and *E. coli* at a very respectable 0.156, while Hire and Dhale (2012) characterized Sandalwood Oil's Zone of Inhibition against *E. coli* at 22mm. From an anti-viral perspective, Treatment of cold sores and genital warts induced by the infection of HSV-1 or HSV-2 was effectively achieved by delivery of therapeutically active doses of Sandalwood oil (Singh and Nulu, 2010).

Sandalwood provides formulators with anti-inflammatory opportunities. Purified

$\alpha$ -santalol and  $\beta$ -santalol were found to suppress lipopolysaccharide-induced production of eicosanoids, prostaglandin E2 and thromboxane B2, mimicking non-steroidal anti-inflammatory drugs (Sharma et al., 2014).

Establishment of large scale Sandalwood (*Album*) plantations in Australia commenced in the early 2000s. These plantations are providing the world with a sustainable and traceable supply of Indian Sandalwood. This new production, combined with Australia's production of native *Santalum spicatum* oil, undisputably establishes Australia as largest producer of Sandalwood Oils in the world.

Down Under offers customers a traceable and sustainable source of Indian Sandalwood Oil, complying with ISO 3518:2002, with the comfort of knowing your Sandalwood Oil is produced with 100% compliance with global benchmarks for workplace labor practices.

### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Dry and Inflamed Skin	Feminine Care	Diaper Rash		Insect Repellent
Shaving & Post Wax	Hair Care	Muscle Pain		Stress Reduction
Acne	Bath Salts	Foot Spray		Air Diffusion
Moisturizer	Deodorant	Cold Sores		Perfume
Eczema	Massage	Respiratory		Aromatherapy
		Antiviral		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

### MAJOR CHEMICAL CONSTITUENTS

Indian Sandalwood is characterized by a high level of Santalols. The ISO standard (3518:2002) requires an  $\alpha$ -Santalol content within a range of 41 and 55%, while the  $\beta$ -Santalol content must be between 16 and 24%.

### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

### REFERENCES

Hire, K. K., Dhale, D. 2012. ANTIMICROBIAL EFFECT AND INSILICO ADMET PREDICTION OF SANTALUM ALBUM L. International Journal of Pharma and Bio Sciences, 3, 727-734.  
 Misra, B., Dey, S. 2012. Comparative phytochemical analysis and antibacterial efficacy of in vitro and in vivo extracts from East Indian Sandalwood tree (*Santalum album* L.). Letters in applied microbiology, 55, 476-486.  
 Sharma, M., Levenson, C., Bell, R., Anderson, S., Hudson, J., Collins, C., Cox, M. 2014. Suppression of Lipopolysaccharide-stimulated Cytokine/Chemokine Production in Skin Cells by Sandalwood Oils and Purified  $\alpha$ -santalol and  $\beta$ -santalol. Phytotherapy research, 28, 925-932.

For references on specific topics please contact us.

**LAVENDER TEA TREE (ROSALINA)**



**PRODUCT DETAILS**

<b>Product Name:</b>	100% Pure Australian Lavender Tea Tree (Rosalina) Oil
<b>Botanical name:</b>	<i>Melaleuca ericifolia</i>
<b>INCI:</b>	Melaleuca Ericifolia Leaf Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	8022-72-8
<b>Part of Plant Used:</b>	Leaves
<b>Appearance:</b>	Colorless to pale yellow mobile liquid
<b>Aroma:</b>	Soft floral, slightly camphoraceous, rosy aroma
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



**THERAPEUTIC PROPERTIES**

Research indicates its effectiveness against transient skin bacteria, making the oil a wonderful addition in personal skin care products (The Utilization of Australian Native Oils for the Control of Transient Bacteria in Skin Care Products). The “rosy” aroma also lends itself to being a replacement for other more expensive “rose” scented oils. It blends well with other oils, being compatible for formulation of various types. From the standpoint of Traditional Chinese Medicine, it is considered a “yin” oil, calming many conditions of heat (excess “yang”) such as inflammation, swelling, tenderness, as well as mental overstimulation that may lead to insomnia or anxiety.

The main constituent, linalool, is a good antiseptic, spasmolytic and anticonvulsant. Researchers at the ethnopharmacology laboratory at the University in Porto Alegre, Brazil, have shown that linalool has effective sedative effects and is rapidly absorbed

through the skin and nasal mucosa. It is an effective antibacterial for upper respiratory tract congestion and infections, particularly in small children. The oil is a gentle expectorant with good anti-infectious properties. Topical use on acne, insect bites, boils, athlete’s foot and herpes; it is antimicrobial and antifungal with a wide range of applications.

Linalool delivers relaxation properties great for calming and relaxing, and ideal for sleep and stress disorders. This tertiary monoterpene offers sedative properties (even through inhalation) that may work through the central nervous system to modify the response to excitatory neurotransmitters associated with convulsions. The antispasmodic effects work through the modulation of a cell signaling molecule which affects the ability of smooth muscle to contract (Bowles).

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Dermatitis/Eczema	Hand and Body Wash	Wound Care		Mosquito Repellent
Shaving & Post Wax	Feminine Care	Muscle Pain		Aromatherapy
Acne	Hair Care	Diaper Rash		Perfume
Cleanser	Oral Care	Foot Spray		
	Lip Balm	Decongestant		
	Deodorant			
	Massage			

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**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include linalool (35-55%) and 1,8 cineole (12-26). The minor components include: alpha-pinene, limonene and terpinen-4-ol.

**MORE INFORMATION**

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**

Webb, Mark. *Bush Sense*; Griffin Press 2000; Adelaide, Australia. Bowles, Joy. *The Chemistry of Aromatherapeutic Oils*; Allen & Unwin 2003; NSW Australia.

For references on specific topics please contact us.

**LEMON SCENTED TEA TREE (CITRATUM)**



**PRODUCT DETAILS**

<b>Product Name:</b>	100% Pure Australian Lemon Scented Tea Tree Oil
<b>Botanical name:</b>	<i>Leptospermum petersonii</i>
<b>INCI:</b>	Leptospermum Petersonii Oil
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	85085-43-4
<b>Part of Plant Used:</b>	Leaves and twigs
<b>Appearance:</b>	Clear colorless to yellow mobile liquid
<b>Aroma:</b>	Pleasant, vibrant, uplifting lemon aroma
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



**THERAPEUTIC PROPERTIES**

Lemon Scented Tea Tree Oil (*Leptospermum petersonii*) contains high levels of citral (neral and geranial) which is a known microbial cell membrane disruptor. It's synergistic benefits with other essential oils are well documented, the MIC of Tea Tree Oil alone for *S. aureus* improves from 1% to just 0.25% when a combination of Lemon Scented and Tea Tree Oil is employed in a 1:5 ratio, respectively. Lemon Scented Tea Tree Oil has also been found to be an excellent antifungal agent. Park et al. published their findings on the beneficial properties of *Leptospermum petersonii* against five common dermatophytes. The authors reported that a *Leptospermum petersonii* concentration of 0.2mg/ml (0.02%) completely inhibited growth in three of five common organisms, with a growth of the remaining two being reduced by up to 92% versus control. Further work into its antifungal benefits was conducted by Hood et al. The authors evaluated the use

of *Leptospermum petersonii* as an antifungal fumigant. Both *in vitro* and *in vivo* results demonstrated a significant fungal burden reduction greater than that found with a course of conventional antifungal drugs.

Perhaps the most intriguing use of Lemon Scented Tea Tree Oil is its ability to effectively mask the odor of Tea Tree Oil. At a 1:7 concentration, the typical Tea Tree Oil smell is virtually indistinguishable, leaving only the fresh, uplifting lemony aroma.

Research demonstrates it offers more powerful disinfectant properties than the more well-known Tea Tree Oil.

**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include neral (25-35%), geranial (30-41.5%) and citronellal (<12%).

**MORE INFORMATION**  
This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**  
Hood JR, et al. "Antifungal activity of *Leptospermum petersonii* oil volatiles against *Aspergillus* spp. *in vitro* and *in vivo*." *J Antimicrob Chemother.* 2010 Feb;65(2):285-8.  
Park MJ, et al. Antifungal activities of the essential oils in *Syzygium aromaticum* (L.) Merr. Et Perry and *Leptospermum petersonii* Bailey and their constituents against various dermatophytes. *J Microbiol.* 2007 Oct;45(5):460-5.  
Therapeutic Goods Administration (Australia) – Complementary Medicines Evaluation Committee. Evaluation of New Substances – *Leptospermum petersonii* (up to 5%) oil. Meeting 45 Ratified Minutes. 23 April 2004.  
Webb, Mark. *Bush Sense*. Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Acne	Hand and Body Wash	Wound Care	Surface Disinfectant	Insecticide
Cleanser	Hair Care	Foot Spray	Room Freshener	Perfume
		Decongestant	Cleaner	Aromatherapy
		Head Lice/Nits	Detergent	
		Antifungal		

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#### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Tea Tree Oil
<b>Botanical name:</b>	<i>Melaleuca alternifolia</i>
<b>INCI:</b>	Melaleuca Alternifolia (Tea Tree) Leaf Oil
<b>HS Code:</b>	3301.29.60
<b>UN Code:</b>	2319
<b>CAS No:</b>	85085-48-9 and 68647-73-4
<b>Part of Plant Used:</b>	Foliage and terminal branchlets
<b>Appearance:</b>	Clear, colorless to yellow mobile liquid
<b>Aroma:</b>	Warm, spicy, earthy, characteristic
<b>Extraction Method:</b>	Steam distilled (water)
<b>Farming Method:</b>	Conventional, Certified Organic
<b>Certifications:</b>	USDA NOP, Bio-CE, ACO, COSMOS, Halal, ATTIA COP



#### THERAPEUTIC PROPERTIES

The most widely Many research studies have shown Tea Tree Oil's efficacy against a wide range of bacteria, typically in concentrations of 1% or less. (Hammer et al., 2006)

Of particular note is Tea Tree Oil's effectiveness in the treatment of acne. In 1990 researchers published the results of a prospective, controlled trial comparing Tea Tree Oil (*M. alternifolia*) to conventional acne treatments containing benzoyl peroxide. They concluded that although the *Melaleuca alternifolia* was initially slower to act, it was just as effective and yielded fewer side effects when compared to the benzoyl peroxide lotion.

Tea Tree Oil is also a known and proven antiviral, including against HSV. It is confirmed (*in vitro* and *in vivo* studies) to also

offer strong efficacy against a wide range of yeast and fungus.

It is considered nontoxic and non-irritant, sensitizing to less than 0.2% of the general population. Caution is suggested in the interpretation of skin sensitivity studies using a Scandinavian patch test containing Tea Tree Oil as this test uses a highly oxidized form of Tea Tree Oil. Other studies have demonstrated a 0% incidence of irritation in formulations of less than 10% Tea Tree Oil.

Research has also shown Tea Tree Oil's effectiveness against Methicillin-resistant *Staphylococcus aureus* (MRSA). This is a very exciting potential for Tea Tree Oil given the issues of MRSA contagion in public buildings such as hospitals and prisons.

#### MAJOR CHEMICAL CONSTITUENTS

ISO 4730:2017 stipulates the 15 most common components and relative proportions in pure Tea Tree Oil.

Major constituents include terpenin-4-ol, alpha-pinene, sabinene, alpha-terpinolene, limonene, para-cymene, 1,8-cineole, gamma-terpinene, alpha-terpineol, aromadendrene, delta-cadinene, globulol, and viridiflorol.

#### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Shaving & Post Wax	Hand and Body Wash	Herpes (oral and genital)	Surface Disinfectant	Graphene synthesis
Acne	Hair Care	Diaper Rash	General Cleaning	Aromatherapy
Cleanser	Oral Care	Foot Spray	Laundry Detergent	
	Feminine Care	Cold Sores	Air Freshener	
	Lip Balm	Wound Care		
	Deodorant	Head Lice/Nits		
		Insect Bites		
		Anti-mite		

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.

#### MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

#### REFERENCES

Bowles Joy. *The Chemistry of Aromatherapeutic Oils*; Allen & Unwin 2003; NSW Australia.  
Hammer, ... 2006 reference

For references on specific topics please contact us.

**MACADAMIA OIL**



**PRODUCT DETAILS**

**Product Name:** 100% Pure Australian Macadamia Oil – Refined Cosmetic Grade  
**Botanical name:** *Macadamia integrifolia*  
**INCI:** Macadamia Integrifolia Seed Oil  
**HS Code:** 1515.90  
**UN Code:** Non-Hazardous  
**CAS No:** 159518-86-2  
**Part of Plant Used:** Seed kernel  
**Appearance:** Clear/bright  
**Aroma:** Neutral to slight nutty essence  
**Extraction Method:** Mechanical press  
**Farming Method:** Conventional  
**Certifications:** COSMOS



**THERAPEUTIC PROPERTIES**

Macadamia Oil is ideal for cosmetics due to its silky texture. It is a natural and sustainable replacement for mink and whale oil.

Traditional uses of the Aborigines of New South Wales and Queensland where macadamia is endemic include the treatment of sunburn and scarring.

The standout component of Macadamia Oil is its relatively high concentration of Palmitoleic Acid. A natural component of young skin, the presence of this fatty acid declines with age. Formulating with Macadamia Oil (refined Cosmetic Grade) may help to restore vital skin nutrients and help the skin feel and look younger.

The highest concentration fatty acid, Oleic acid is an anti-inflammatory and makes a good addition to moisturizing formulations in all body care products.

Macadamia Oil's rich feel and viscosity, and high oxidative stability make it especially suitable for heavy creams and sun care preparations.

**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include Oleic Acid (55-67%) and Palmitoleic Acid (13-25%). The minor components include Lauric Acid, Myristic Acid, Palmitic Acid, Stearic Acid, Linoleic Acid, Linolenic Acid, Arachidic Acid, Eicosenoic Acid and Behenic Acid.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Dermatitis/Eczema	Hand and Body Wash	Wound Care		Aromatherapy
Shaving & Post Wax	Feminine Care	Muscle Pain		
Facial Serum	Hair Care	Diaper Rash		
Moisturizer	Lip Balm			
	Deodorant			
	Massage			

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**MORE INFORMATION**

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

**REFERENCES**

Maguire LS, O'Sullivan SM, Galvin K, O'Connor TP, O'Brien NM. Fatty acid profile, tocopherol, squalene and phytosterol content of walnuts, almonds, peanuts, hazelnuts and the macadamia nut. *Int J Food Sci Nutr.* 2004 May;55(3):171-8.

For references on specific topics please contact us.

**SANDALWOOD SEED OIL**



**PRODUCT DETAILS**

<b>Product Name:</b>	100% Pure Australian Sandalwood Seed Oil
<b>Botanical name:</b>	Santalum spicatum (syn. Fusanus spicatus)
<b>INCI:</b>	Santalum Spicatum Seed Oil
<b>HS Code:</b>	1515.90
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	1542150-96-8
<b>Part of Plant Used:</b>	Seed kernel
<b>Appearance:</b>	Clear, yellow to golden-yellow, viscous liquid
<b>Aroma:</b>	Neutral to very mild nutty aroma, reminiscent of Sandalwood essential oil
<b>Extraction Method:</b>	Super critical fluid extraction (CO <sub>2</sub> )
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



**THERAPEUTIC PROPERTIES**

Sandalwood Seed Oil is the fatty oil obtained by a novel Green Chemistry™ supercritical (CO<sub>2</sub>) fluid extraction process. Sandalwood Seed Oil is a rich source of a natural and highly stable, acetylenic fatty acid - Ximenynic Acid – which offers well documented pharmacologic benefits:

- Aging process
- Varicose veins and cellulitis
- Hair loss
- Fat deposition
- Skin oiliness
- Inflammation

Sandalwood Seed Oil is non-toxic and non-irritating (dermal and ocular). The oil is produced in a sustainable manner, in cooperation with traditional Aboriginal Communities.

**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include Oleic Acid (48-56%) and Ximenynic Acid (28-36.5%). The minor components include palmitic acid, palmitoleic acid, stearic acid, linoleic acid, α-linoleic acid and stearolic acid.

**MORE INFORMATION**

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**REFERENCES**

Bombardelli, Ezio, Aldo Cristoni, and Paolo Morazzoni. "Combinations of vasoactive substances with fatty acids to prevent hair loss." U.S. Patent No. 5,665,335. 9 Sep. 1997.

Bombardelli, Ezio, and Sergio B. Curri. "Polyunsaturated acids having vasokinetic action and pharmaceutical and cosmetic formulations containing them." U.S. Patent No. 5,104,655. 14Apr. 1992.

Bombardelli E, Guglielmini G, Morazzoni P, Curri SB, Polinelli W. Microvasculokinetic activity of ximenynic acid ethyl ester. *Fitoterapia [Pharmacology of Ximenynic acid]* 1994; 65(3): 195.

Croft KD, Beilin LJ, Ford GL. Differential inhibition of thromboxane B2 and leukotriene B4 biosynthesis by two naturally occurring acetylenic fatty acids. *Biochimica et Biophysica Acta(BBA) - Lipids and Lipid Metabolism.* 1987; 921(3):621-624.

Hettiarachchi, D.S, Liu, Y., Fox, J., & Sunderland, B. (2010). Western Australian Sandalwood Seed Oil: new opportunities. *Lipid Technology*, 22(2), 27-29.

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Dermatitis/Eczema	Body Moisturizer	Diaper Rash		
Shaving & Post Wax	Intense Scalp Treatment	Varicose Vein ream		
Facial Moisturizer	Cellulite Cream			
Facial Scrub	Lip Balm			
Night Cream	Shampoo			
Acne				

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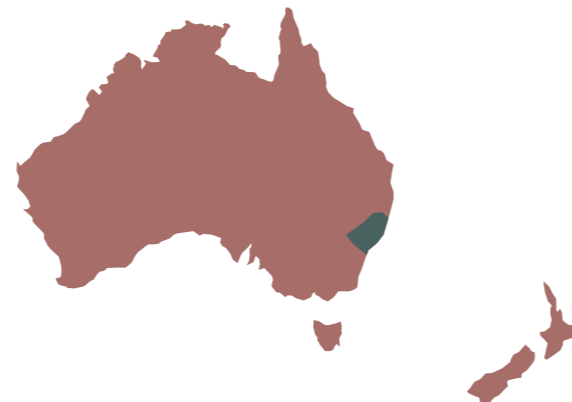
For references on specific topics please contact us.





### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Tea Tree Hydrosol
<b>Botanical name:</b>	<i>Melaleuca alternifolia</i>
<b>INCI:</b>	Melaleuca Alternifolia (Tea Tree) Leaf Water
<b>HS Code:</b>	3303.00
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	None issued
<b>Part of Plant Used:</b>	Foliage and terminal branchlets
<b>Appearance:</b>	Clear mobile liquid
<b>Aroma:</b>	Slightly medicinal
<b>Extraction Method:</b>	Steam distilled
<b>Farming Method:</b>	Conventional, Certified Organic
<b>Our Certifications:</b>	COSMOS, USDA NOP, Bio-CE, ACO



### THERAPEUTIC PROPERTIES

Like its ubiquitous essential oil counterpart, Tea Tree Hydrosol possesses wide spectrum anti-microbial, antibacterial, antiviral and antifungal properties. It has been validated in independent research lab testing as an effective preservative for oral personal care products, achieving a bacterial colony count reduction of  $\geq 103$  at 14 days post-challenge, and  $\geq 101$  reduction for yeast and mold.

Tea tree hydrosol can be used topically as a facial mist or toner to fight acne, to clean cuts, scrapes, wounds of all kinds and as a fungal nail treatment. Tea Tree hydrosol is also used internally in various ways such as a gargle or mouthwash for sore throat, coughs, and gingivitis.

Microbiology culture testing was also performed using *Staphylococcus aureus*, *Pseudomonas spp.*, *E. coli*, and *Salmonella spp.*, as well as bile tolerant gram negative bacteria. Results of these studies indicated no detectable cell counts at 5 days post incubation (20-25°C).

Tea Tree Hydrosol has been approved by the Australian Therapeutic Goods Administration (TGA, the Australian medical regulatory authority) to assist the healing of pimples, minor wounds and skin irritations. Furthermore, it is approved to help clean the skin and reduce the potential for minor skin infections.

### MAJOR CHEMICAL CONSTITUENTS

Major constituents include Tea Tree Oil volatiles (890-1500.0ppm), consisting of Terpinen-4-ol (80-980), 1,8-cineole (01-32) and  $\alpha$ -terpineol (8-180).

### MORE INFORMATION

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### REFERENCES

BioTest Laboratories Pty Ltd, Underwood, Qld, Australia. Hydrosol of *Melaleuca alternifolia* privately commissioned lab testing (2012). Results on file.  
Catty, S; Hydrosols: The Next Aromatherapy. Healing Arts Press. Rochester, Vermont. 2001.  
Webb, Mark. Bush Sense; Griffin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Shaving & Post Wax	Bath Balm	Skin Cuts and Abrasions	Surface Disinfectant	Water Replacement in Personal Care Formulations
Facial Toner and Mist	Douche Solution Oral Care	Flushing Solution for Wounds and Abscesses Nail Fungal Infections		

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## SANDALWOOD



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Sandalwood Hydrosol
<b>Botanical name:</b>	<i>Santalum spicatum</i> (syn. <i>Fusanus spicatus</i> )
<b>INCI:</b>	Sandalwood (Santalum spicatum) wood water
<b>HS Code:</b>	3303.00
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	84787-70-2
<b>Part of Plant Used:</b>	Wood
<b>Appearance:</b>	Near colorless liquid
<b>Aroma:</b>	Sweet, soft and woody
<b>Extraction Method:</b>	Steam distilled
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



## THERAPEUTIC PROPERTIES

The hydrosol from the steam distillation of Sandalwood is a very stable (unpreserved shelf life >18 months) solution which may be used for its mild astringent, antibacterial, and anti-inflammatory capabilities.

The Sandalwood Hydrosol has an aroma quite similar, yet softer, to the essential oil. This characteristic odor, used so extensively in perfumery as a base note, may be further employed in aqueous-based formulations for fragrance and functional advantages.

Sandalwood hydrosol is an amazing addition to skin care products, it can be used in many ways, including as a compress on delicate and mature skins, in the eye area for crepey lids, and variable results for acne, rosacea, couperose skin, eczema, and psoriasis. Due to its anti-inflammatory properties, it is also a great aftershave.

For many years Sandalwood Oil and Hydrosol were extracted as an absolute. One of Down Under's long-standing Sandalwood distillers pioneered the steam distillation technique for Sandalwood Oil and hydrosol – eliminating extraction with hazardous substances such as hexane.

## MAJOR CHEMICAL CONSTITUENTS

Major constituents include cis- $\alpha$ -santalol, epi- $\alpha$ -santalol, epi- $\beta$ -santalol, cis- $\beta$ -santalol, cis-nuciferol, cis- $\beta$ -curcumene-12-ol, cis-lanceol, and trans, trans-farnesol.

## MORE INFORMATION

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## REFERENCES

Bowles, Joy. *The Chemistry of Aromatherapeutic Oils*; Allen & Unwin 2003; NSW Australia.  
 Catty, S; *Hydrosols: The Next Aromatherapy*. Healing Arts Press. Rochester, Vermont. 2001.  
 Webb, Mark; *Bush Sense*; Griffin Press 2000; Adelaide, Australia.  
 Wilkinson, J.M., Cavanagh, H.M.A., "Antibacterial activity of essential oils from Australian native plants", *Phytotherapy Research*, Volume 19, Issue 7, pp.643 - 646. July 2005.

For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Shaving & Post Wax	Bath Fragrance	Wound Care	Linen Spray	Water Replacement in Personal Care Formulations
Facial Toner and Mist	Hair Care	Diaper Rash		
Facial Mask	Cooling Agent			
	Feminine Care			

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### PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Lavender Hydrosol
<b>Botanical name:</b>	<i>Lavandula angustifolia</i>
<b>INCI:</b>	Lavandula Angustifolia (Lavender) Flower Water
<b>HS Code:</b>	3303.00
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	90063-37-9
<b>Part of Plant Used:</b>	Fresh flowering tops
<b>Appearance:</b>	Clear
<b>Aroma:</b>	Sweet, floral
<b>Extraction Method:</b>	Steam distilled
<b>Farming Method:</b>	Conventional
<b>Certifications:</b>	COSMOS



### THERAPEUTIC PROPERTIES

The wonderfully refreshing fragrance of Lavender Hydrosol may be applied in a wide range of personal care, medicinal, and household applications. Lavender Hydrosol offers calming and anti-inflammatory properties. Ideally suited to formulations for the elderly or small children due to its mild, non-toxic character. Use Lavender Hydrosol as an excellent water (aqua) replacement in formulations.

A French study compared Lavender with four other essential oils and found that Lavender was the only oil to consistently elicit a feeling of 'happiness'. When these factors are combined with the benefits of touch, as with massage, it is especially effective in reducing stress, a major trigger for many health problems. Lavender oil is active against many species of bacteria and fungi, due to the geraniol and linalool, aromatic constituents of the oil. The calming effects are attributed to the abundant esters.

### MAJOR CHEMICAL CONSTITUENTS

Major constituents include Lavender Oil volatiles (950-1500ppm), linalool (200-400), cis linalool oxide (furanoid) (75-100), trans linalool oxide (furanoid) (50-90)

### POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
Facial Toner and Mist	Bath Fragrance	Calm Sunburn	Linen Spray	Water Replacement in Personal Care Formulations
Make Up Remover	Baby Products	Diaper Rash	Air Freshener	
Facial Mask		Wound Care		
		Heat Rash		

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### REFERENCES

Catty, S; Hydrosols: The Next Aromatherapy. Healing Arts Press. Rochester, Vermont. 2001. Webb, Mark. Bush Sense; Griffiin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.



**PRODUCT DETAILS**

**Product Name:** 100% Pure Australian Fragonia® Hydrosol  
**Botanical name:** *Agonis fragrans*  
**INCI:** None issued  
**HS Code:** 3303.00  
**UN Code:** Non-Hazardous  
**CAS No:** None issued  
**Part of Plant Used:** Terminal branches  
**Appearance:** Near colorless liquid  
**Aroma:** Fresh cineolic character  
**Extraction Method:** Steam distilled  
**Farming Method:** Conventional  
**Certifications:** COSMOS



**THERAPEUTIC PROPERTIES**

The hydrosol from the steam distillation of *Agonis fragrans* (Fragonia®) exhibits the same olfactory character as the essential oil, yet in a milder format. As a water-based solution, Fragonia hydrosol offers excellent calming and relaxing properties. More scientific work on this new and exciting essential oil and hydrosol are underway.

**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include Fragonia Oil volatiles (1300-1500ppm), 1,8-cineole (10-18), alpha-terpineol (20-40)

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Facial Toner and Mist	Bath Fragrance		Linen Spray	Water Replacement in Personal Care Formulations
Facial Mask				

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**REFERENCES**  
 Catty, S; Hydrosols: The Next Aromatherapy. Healing Arts Press. Rochester, Vermont. 2001.  
 Webb, Mark. Bush Sense; Griffiin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

**LEMON MYRTLE**



**PRODUCT DETAILS**

**Product Name:** 100% Pure Australian Lemon Myrtle Hydrosol  
**Botanical name:** *Backhousia citriodora*  
**INCI:** None issued  
**HS Code:** 3303.00  
**UN Code:** Non-Hazardous  
**CAS No:** None issued  
**Part of Plant Used:** Terminal branches and leaves  
**Appearance:** Near colorless liquid  
**Aroma:** Fresh citral character  
**Extraction Method:** Steam distilled  
**Farming Method:** Conventional  
**Certifications:** COSMOS, Halal



**THERAPEUTIC PROPERTIES**

The hydrosol from the steam distillation of *Backhousia citriodora* (Lemon Myrtle) exhibits the same olfactory character as the essential oil, yet in a milder format. As a water-based solution, Lemon Myrtle hydrosol offers excellent freshening and uplifting sensorial properties.

More scientific work on this new and exciting essential oil and hydrosol are underway.

**MAJOR CHEMICAL CONSTITUENTS**

Major constituents include Lemon Myrtle Oil volatiles (140-1800ppm), geranial (60-465), neral (50-365)

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Facial Toner and Mist	Bath Fragrance	Calm Sunburn	Linen Spray	Water Replacement in Personal Care Formulations
Make Up Remover	Baby Products	Diaper Rash	Air Freshener	
Facial Mask		Wound Care		
		Heat Rash		

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**MORE INFORMATION**

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**REFERENCES**

Catty, S; Hydrosols: The Next Aromatherapy. Healing Arts Press. Rochester, Vermont. 2001. Webb, Mark. Bush Sense; Griffiin Press 2000; Adelaide, Australia.

For references on specific topics please contact us.

**TEA TREE (DRIED)**



**PRODUCT DETAILS**

**Product Name:** 100% Pure Australian Tea Tree Milled Leaf (Dried)  
**Botanical name:** *Melaleuca alternifolia*  
**INCI:** Melaleuca Alternifolia (Tea Tree) Leaf  
**HS Code:** 1211.90.93  
**UN Code:** Non-Hazardous  
**CAS No:** None Issued  
**Part of Plant Used:** Leaves  
**Appearance:** Light green to khaki  
**Aroma:** Warm, spicy, earthy  
**Extraction Method:** Manual stripping and drying of leaves  
**Farming Method:** Conventional  
**Certifications:** COSMOS, Halal



**THERAPEUTIC PROPERTIES**

The leaves from the *Melaleuca alternifolia* plant are selected at their prime oil content state, carefully air dried, and ground to either a coarse or a fine grade to be used in a range of applications similar to the pure Tea Tree essential oil.

Possessing the antibacterial, anti-microbial, antiviral, antifungal properties of the essential oil, the leaf product also retains the tea tree’s natural water-based properties. Dried tea tree leaves offer the broadest essence of the natural plant in a readily assessable format for personal care applications.

**MICROBIOLOGICAL EVALUATION**

Each batch of Tea Tree Leaf (Dried) undergoes extensive microbiological evaluation conforming to BP1988 Standards (App XVI B2 and Opt A + B).

**GRADING**

Coarse leaf passes a 3000 µm screen (100%).

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Facial Mask	Hand Cleanser			
Facial Scrub	Body Scrub			

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For references on specific topics please contact us.

**KAKADU PLUM POWDER**



**PRODUCT DETAILS**

<b>Product Name:</b>	100% Pure Australian Kakadu Plum Powder
<b>Botanical name:</b>	<i>Terminalia ferdinandiana</i>
<b>INCI:</b>	Terminalia Ferdinandiana Fruit Powder
<b>HS Code:</b>	1211.90
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	1176234-54-0
<b>Part of Plant Used:</b>	Fruit flesh and skin without seed
<b>Appearance:</b>	Dry pale green-yellow powder
<b>Aroma:</b>	Non-odorous
<b>Extraction Method:</b>	Mechanically pressed then freeze dried
<b>Farming Method:</b>	Wildcrafted,
<b>Certifications:</b>	COSMOS, USDA NOP, ACO



**THERAPEUTIC PROPERTIES**

A part of the traditional diet of Aboriginal communities in the key growing region of Australia's north coast, Kakadu Plum is an exciting new ingredient for the global personal care and supplement industry. Kakadu Plum Powder (water based) has been identified as containing one of the highest sources of Vitamin C (Ascorbic Acid) on the planet – gram-to-gram over 50 times greater than an orange!

The dried Kakadu Plum contains ascorbic acid, fiber (>47.5%), gallic acid, and ellagic acid. Gallic acid is known for its antifungal and antiviral properties, while ellagic acid's anti-oxidative properties complement the ascorbic acid functionality. The Oxygen Radical Absorbance Capacity (ORAC) value of Kakadu Plum is 600% greater than goji berries.

Use Kakadu Plum Powder in new personal care products or in current formulations replacing other anti-oxidative ingredients such as cranberry, goji berry, blueberry, green tea, or even acerola.

**MAJOR CHEMICAL CONSTITUENTS**

Ascorbic acid (vitamin C) >50%; dietary fiber

**POTENTIAL PRODUCT APPLICATIONS**

Skincare	Personal Care	Medicinal	Household	Other
Facial Mask Facial Scrub	Hand Cleanser Body Scrub	Antioxidant		Preservative

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## MOUNTAIN PEPPER OIL



## PRODUCT DETAILS

<b>Product Name:</b>	100% Pure Australian Mountain Pepper Oil
<b>Botanical name:</b>	<i>Tasmannia lanceolata</i>
<b>INCI:</b>	Tasmannia Lanceolata Fruit/Leaf Extract
<b>HS Code:</b>	3301.29
<b>UN Code:</b>	Non-Hazardous
<b>CAS No:</b>	183815-52-3
<b>Part of Plant Used:</b>	Leaves
<b>Appearance:</b>	Dark citron green viscous liquid
<b>Aroma:</b>	Reminiscent of the Australian bush, dry paper bark and herbs
<b>Extraction Method:</b>	Hexane extraction followed by CO2 refining
<b>Farming Method:</b>	Wildcrafted
<b>Certifications:</b>	OSMOS



## THERAPEUTIC PROPERTIES

Mountain Pepper Concrete is produced from an abundant wild resource where the bush grows copiously in moist, sheltered environments from sea level to sub alpine areas within Tasmania, Australia's southern island state.

The leaves are harvested using sustainable methods before drying, milling, extraction, and refining.

Mountain Pepper Concrete has a distinctive and exotic aroma, possessing fresh and spicy top notes overlying a peppery background. This oil presents as a dark citron green, viscous liquid. The concrete is partially soluble in ethanol.

Produced from the leaves of the native Tasmanian Mountain Pepper bush (*Tasmannia lanceolata*) and traditionally used as a spice, Tasmanian Native Pepper has been a favorite within the local market for

decades. Lipophilic extracts of Tasmanian Native Pepper are very high in the unique pungent compound polygodial.

Very few plant species in the world contain polygodial, which research has shown is responsible for many interesting properties with potential applications in food, flavor, oral care, cosmetics, fragrance, therapeutic goods, and cleaning products. Of note, while this is highly pungent (180,000 Scoville units), it is considered as a (dermal) non-irritant (RIPT) in a 2% concentration.

Cock, et al. (2015) reported on the study of native Australian flora to inhibit the microbial onset of rheumatoid arthritis (RA) by *Proteus mirabilis*. The authors noted Mountain Pepper Oil (*Tasmannia lanceolata*) elicited the most favorable inhibition of *Proteus mirabilis*, with MIC significantly less than 1000ug/ml (0.01%). The authors also noted the extract was non-toxic using the *Artemia*

*napulii* bio-assay. The authors concluded that the bioactivity of *Tasmannia lanceolata* provides good potential as a blocker of microbial-induced rheumatoid arthritis.

## MAJOR CHEMICAL CONSTITUENTS

Major components include polygodial (12-16%), guaiol (4-6%), calamenene, and linalool.

## MORE INFORMATION

This is an overview. Our website contains more supporting documentation (e.g. Sample COA, Specification, SDS). Additional documentation (e.g. Allergen Statement, IFRA Certificate, Prop 65, non-GMO, etc.) is available on request.

## REFERENCES

Bowles, Joy. *The Chemistry of Aromatherapeutic Oils*; Allen & Unwin 2003; NSW Australia.  
 Cock IE, Winnett V, Sirdaarta J, Matthews B; The potential of selected Australian medicinal plants with anti-*Proteus* activity for the treatment and prevention of rheumatoid arthritis; *Pharmacogn Mag*; 5190-208; May, 2015.  
 Webb, Mark; *Bush Sense*; Griffin Press 2000; Adelaide, Australia.  
 Wilkinson, J.M., Cavanagh, H.M.A., "Antibacterial activity of essential oils from Australian native plants", *Phytotherapy Research*, Volume 19, Issue 7, pp.643 - 646. July 2005.  
 For references on specific topics please contact us.

## POTENTIAL PRODUCT APPLICATIONS

Skincare	Personal Care	Medicinal	Household	Other
	Toothpaste Mouthwash			Culinary Fragrance Preservative

These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure, or prevent any disease. To receive a copy of our Applications Guide for Pure Australian Essential Oils and Carrier Oils, please contact us.



COMMON NAME	BOTANICAL NAME	FARMING METHOD			ORDER QUANTITIES AVAILABLE BY SKU					
		CONVENTIONAL	CERTIFIED ORGANIC	COSMOS	1 KG (2.2LB)	5 KG (11LB)	10 KG (22LB)	20 KG (44LB)	180 - 200 KG	BULK (TON+)
<b>ESSENTIAL OILS</b>										
Anise Myrtle	<i>Syzygium anisatum</i>	✓		✓	SA1	SA5	SA10	SA20	SA180	
Balm Mint Bush	<i>Prostanthera melissifolia</i>	✓		✓	PM1	PM5	PM10	PM20	PM180	
Buddha Wood	<i>Eremophila mitchellii</i>			✓	EM1	EM5	EM10	EM20	EM180	
Cypress, Blue	<i>Callitris intratropica</i>	✓		✓	C11	C15	C110	C120	C180	
Cypress, White (Leaf)	<i>Callitris columellaris</i>	✓		✓	CC1	CC5	CC10	CC20	CC180	
Cypress, White (Wood)	<i>Callitris columellaris</i>	✓		✓	CCW1	CCW5	CCW10	CCW20	CCW180	
Eucalyptus Australiana	<i>Eucalyptus radiata</i>	✓		✓	EuR1	EuR5	EuR10	EuR20	EuR180	
Eucalyptus Australiana – USDA Organic	<i>Eucalyptus radiata</i>		✓	✓	EuR(USDAOrg)1	EuR(USDAOrg)5	EuR(USDAOrg)10	EuR(USDAOrg)20	EuR(USDAOrg)180	
Eucalyptus	<i>Eucalyptus polybractea</i>	✓		✓	EuP1	EuP5	EuP10	EuP20	EuP180	
Eucalyptus – USDA Organic	<i>Eucalyptus polybractea</i>		✓	✓	EuP(USDAOrg)1	EuP(USDAOrg)5	EuP(USDAOrg)10	EuP(USDAOrg)20	EuP(USDAOrg)180	
Eucalyptus, Lemon Scented	<i>Eucalyptus citriodora</i>	✓		✓	EuC1	EuC5	EuC10	EuC20	EuC180	
Eucalyptus, Lemon Scented Iron Bark	<i>Eucalyptus staigeriana</i>	✓		✓	EuSt1	EuSt5	EuSt10	EuSt20	EuSt180	
Eucalyptus, White Iron Bark (Gully Gum/smithii)	<i>Eucalyptus smithii</i>	✓		✓	EuSm1	EuSm5	EuSm10	EuSm20	EuSm180	
Eucalyptus, Peppermint Gum	<i>Eucalyptus dives</i>	✓		✓	EuD1	EuD5	EuD10	EuD20	EuD180	
Eucalyptus, Strawberry Gum	<i>Eucalyptus olida</i>	✓		✓	EuO1	EuO5	EuO10	EuO20	EuO180	
Fragonia®	<i>Agonis fragrans</i>	✓		✓	AF1	AF5	AF10	AF20	AF180	
Honey Myrtle	<i>Melaleuca teretifolia</i>			✓	MT1	MT5	MT10	MT20	MT180	
Kunzea	<i>Kunzea ambigua</i>			✓	KA1	KA5	KA10	KA20	KA180	
Lavender, Australian	<i>Lavandula angustifolia</i>	✓		✓	LA1	LA5	LA10	LA20	LA180	
Lemon Myrtle	<i>Backhousia citriodora</i>	✓	✓	✓	BC1	BC5	BC10	BC20	BC180	
Manuka	<i>Leptospermum scoparium</i>			✓	LS1	LS5	LS10	LS20	LS180	
Niaouli	<i>Melaleuca quinquenervia</i>			✓	MQC1	MQC5	MQC10	MQC20	MQC180	
Nerolina	<i>Melaleuca quinquenervia</i>			✓	MQ1	MQ5	MQ10	MQ20	MQ180	
Sandalwood, Australian – Regular Grade	<i>Santalum spicatum</i>	✓		✓	SS1	SS5	SS10	SS20	SS180	
Sandalwood, Australian – USDA Organic	<i>Santalum spicatum</i>	✓	✓	✓	SS(USDAOrg)1	SS(USDAOrg)5	SS(USDAOrg)10	SS(USDAOrg)20	SS(USDAOrg)180	
Sandalwood, Australian – Premium Grade	<i>Santalum spicatum</i>		✓	✓	SSPG1	SSPG5	SSPG10	SSPG20	SSPG180	
Indian Sandalwood	<i>Santalum album</i>			✓	SALP1	SALP5	SALP10	SALP20	SALP180	
Lavender Tea Tree (Rosalina)	<i>Melaleuca ericifolia</i>	✓		✓	ME1	ME5	ME10	ME20	ME180	
Lemon Scented Tea Tree (Citratum)	<i>Leptospermum petersonii</i>	✓		✓	LP1	LP5	LP10	LP20	LP180	
Manuka – Standard Grade	<i>Leptospermum scoparium</i>	✓		✓	LSSG1	LSSG5	LSSG10	LSSG20	LSSG180	
Manuka – Premium Grade	<i>Leptospermum scoparium</i>	✓		✓	LSPG1	LSPG5	LSPG10	LSPG20	LSPG180	
Tea Tree	<i>Melaleuca alternifolia</i>	✓		✓			MA10	MA20	MA185	MA900
Tea Tree - USDA Organic	<i>Melaleuca alternifolia</i>		✓	✓			MA(USDAOrg)10	MA(USDAOrg)20	MA(USDAOrg)185	MA(USDAOrg)900
<b>CARRIER OILS</b>										
Macadamia Oil	<i>Macadamia integrifolia</i>	✓		✓					MIC200	MIC1000
Sandalwood Seed Oil (Bio-Active)	<i>Santalum spicatum</i>		✓	✓	SSC1			SSC20	SSC200	SSC1000
<b>HYDROSOLS (FLOWER WATERS)</b>										
Tea Tree	<i>Melaleuca alternifolia</i>	✓		✓			MAHYD10	MAHYD20	MAHYD200	MAHYD1000
Tea Tree - USDA Organic	<i>Melaleuca alternifolia</i>	✓	✓	✓			MAHYD(USDOrg)10	MAHYD(USDOrg)20	MAHYD(USDOrg)200	MAHYD(USDOrg)1000
Lemon Scented Tea Tree (Citratum)	<i>Leptospermum petersonii</i>	✓		✓			LPHYD10	LPHYD20	LPHYD200	LPHYD1000
Lavender, Australian	<i>Lavandula angustifolia</i>	✓		✓			LAHYD10	LAHYD20	LAHYD200	LAHYD1000
Lemon Myrtle	<i>Backhousia citriodora</i>	✓		✓			BCHYD10	BCHYD20	BCHYD200	BCHYD1000
Fragonia®	<i>Agonis fragrans</i>	✓		✓			AFHYD10	AFHYD20	AFHYD200	AFHYD1000
Sandalwood, Australian	<i>Santalum spicatum</i>			✓			SSHYD10	SSHYD20	SSHYD200	SSHYD1000
<b>OTHER NATIVE INGREDIENTS</b>										
Sandalwood Seed Grit	<i>Santalum spicatum</i>	✓		✓	SSFG1	SSFG5	SSFG10	SSFG20	SSFG200	
Kakadu Plum (Powder)	<i>Terminalia ferdinandiana</i>	✓	✓	✓	TF1		TF10	TF20		
Tea Tree Leaf (Coarse)	<i>Melaleuca alternifolia</i>	✓		✓		MALC2.5 (2.5 kg)	MALC10	MALC20		
Mountain Pepper Oil (Concrete)	<i>Tasmannia lanceolata</i>	✓		✓	TL1		TL10	TL20		

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