Tattoo Removal Scars and Wound Healing Products

Scarring, whether from an injury or tattoo, is the body's natural healing process for repairing damaged skin. Several factors affect the severity of scarring, from the depth of the wound, skin type or the kind of injury. Tattoo scarring can result from the initial process or from the removal. When formulating a product to reduce the appearance of scars or assist with the healing of wounds, these are the properties to look for: anti-inflammatory, antioxidant, anti-microbial, antifungal, moisturising and soothing. The following compounds offer some of these properties and more...



Vital Elements for Tatoo Removal Scars and Wound Healing

VITAMINS

VITAMIN A - Stimulates the production of collagen to fuel cell turnover, has anti-inflammatory and antioxidant effects. Retinoid, a vitamer of Vit A, also stimulates the production of new blood vessels in the skin, which improves skin color. Additional benefits include fading age spots and softening rough patches of skin.

VITAMIN B - The B vitamins consist of 8 different vitamers. Their benefits range from improving the appearance of fine lines and wrinkles, to improving skin tone and balancing natural oils, great for dry or acne-prone skin. B6 specifically can diminish the effects of hormonal imbalance, which can cause acne, redness and inflammation.

VITAMIN C - Is a potent antioxidant that can neutralize free radicals, even skin tone, and promote collagen production.

VITAMIN E - Promotes anti-oxidant activity, repairs and improves damaged skin while simultaneously moisturizing. It naturally enhances the skin's regeneration process, thus often alleviating discoloration and pigmentation. (This is why vitamin E is often thought of as a magical antidote for stubborn acne scars).

VITAMIN F - May be exceptionally beneficial for those with inflammatory skin issues. It helps reduce inflammation as well as regulate healthy cell function, and excessive water loss. It is best for people with highly sensitive skin and conditions such as atopic dermatitis, psoriasis, seborrheic dermatitis, rosacea, and acne as it calms and soothes troubled skin.

VITAMIN K - Potential antioxidant and anti-inflammatory, with known effects to help with blood clotting. Promotes cellular metabolism and has anti-inflammatory properties, promotes wound healing by increasing wound contraction and re-epithelialization, and may have antioxidant properties.

FATTY ACIDS

OMEGA 3 - Alpha-linolenic acid exhibits anti-oxidant properties and prevents inflammation.

OMEGA 6 - Linoleic acid encourages moisture retention in skin, exhibits anti-inflammatory properties, and encourages anti-oxidant activity.

OMEGA 9 - Oleic acid has powerful anti-oxidant properties and prevents inflammation.

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AVOCADO Persea americana OIL

Rich in oleic acid Omega 9 and linoleic acid Omega 6, its antioxidant properties protect and rejuvenate the appearance of skin. It's great for moisturizing, with carotenoids (acting as antioxidants), vitamin A, B, D and E, and Lecithin, a moisturising compound for hair and skin. Antimicrobial and anti-inflammatory, avocado helps skin stay smooth, strong, elastic, calms itchy skin, hydrates and moisturizes chapped skin, aiding in the repair of scars, shields skin from ultraviolet radiation, and protects against skin damage.

BAOBAB Adansonia digitata EXOTIC OIL

Its comprised of equal parts saturated fats, monounsaturated fats, and polyunsaturated fats, Vitamin A, antioxidant protects skin from free radical damage, Vitamin C encouraging the skin to product collagen, vitamin E, and vitamin D3 plus a high content of Fatty Acids Omega 3, 6, and 9 giving it Anti-Inflammatory properties promotes rejuvenation of the skin cells a wonderful wound healing for scaring. The antioxidant protects skin from free radical damage. Excellent moisturizer for the skin.

CAMELLIA Camamellia japonica EXOTIC OIL

Has a high content of Fatty Acids: Omega 3, 6 and 9. Its anti-Inflammatory properties promote rejuvenation of skin cells, wonderful wound-healing compounds for scaring. It is an excellent moisturizer, comprised of equal parts saturated fats, monounsaturated fats, and polyunsaturated fats. Antioxidants Vitamin A protects skin from free radical damage, Vitamin C encourages the skin to produce collagen helping to repair wounds and scars. Vitamin E and Vitamin D also contribute to maintaining a healthy skin barrier. The oil's antioxidant properties help in the restoration and production of collagen - a pivotal protein for healing scars.

CHIA SEED Salvia hispanica EXOTIC OIL

Chia seeds are packed with anti-oxidants and linolenic acid omega 3 that sooth inflammation, reduce scars and keep skin radiant and healthy. It's a light oil, so it absorbs quickly into the skin. Chia Seed Oil is also high in linoleic acid Omega-6 with anti-inflammatory properties. It is rich in manganese, phosphorus, copper, selenium, iron, magnesium, and calcium, but poor in vitamins.

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HEMP SEED Cannabis sativa OIL

Is rich in plant-based protein, polyunsaturated fatty acids, Omega 3, 6 and 9. Containing antioxidant activity through tocopherols or Vitamin E and Vitamins A, B, C and D. It has minerals, such as potassium, magnesium, iron, zinc, and calcium. It has anti-inflammatory, anti-oxidant, anti-aging and antibacterial potential, making it perfect for oily skin and sensitive skin. It is known to reduce inflammation, redness and clogged pores associated with itchiness and dryness, eczema, acne and psoriasis. It has been known to balance the oil production of oily skin, is nourishing, firms and tightens dry skin locking in moisture. It may help reduce the look of fine lines and wrinkles, soothing irritated skin. It can help protect the skin from harsh environmental damage and help heal stretch marks and scars. The powerful anti-inflammatory properties simultaneously encourage new cell generation, giving younger looking skin and helping to heal wounds.

KUKUI NUT Aleurites moluccana EXOTIC OIL

High in Omega 3, 6 and 9, offering anti-inflammatory and antioxidant properties. Vitamin A, C and E, provide antioxidants that help to protect the skin. It can quickly penetrate the deepest skin layers, while locking in moisture. Kukui is rich in natural antioxidants and minerals. It helps heal wounds and scars and skin problems like dryness, eczema, psoriasis, and boosts collagen.

MACADAMIA Macadamia integriflora OIL

Has a chemical profile similar to the skin's natural sebum, making it easily absorbed. It is the richest botanical source of Palmitoleic acid Omega 7, as well as Omega 3 and 9, and is a highly effective anti-oxidant, rich in squalene, supporting cell regeneration and can help heal burns, wounds, scars and stretch marks, reduce dermatitis and eczema. Its anti-inflammatory activity is regenerative and hydrating to the outermost layer of skin, creating a natural oil barrier that helps skin retain water. It's hypo-allergenic, making it well-suited for use on sensitive skin. It can help keep the skin elastic and looking youthful. By destroying free radicals, the amazing nutrients in this oil may reduce fine lines, wrinkles and sagging skin to prevent premature aging and safeguard against sun damage.. Macadamia's are high in vitamins E is a good source of protein, calcium, potassium and are low in sodium.

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MARULA Sclerocarya birrea EXOTIC OIL

Considered the richest plant source of oleic acid Omega 9. Its powerful anti-oxidant properties may reduce inflammation, acne, blemishes, and scaring. Marula Oil can diminish the appearance of stretch marks, dryness, and cracking, facilitating the healing of irritation, hydrating skin to prevent moisture loss, and enhancing elasticity and firmness by boosting collagen production. Is abounds in antioxidants and vitamin C, which can neutralize free radicals, and even skin tone. Vitamin E repairs and improves damaged skin while simultaneously moisturizing, naturally enhancing the skin's regeneration process. Marula oil is lightweight, easily absorbing into the skin - an effective moisturizer for dry and aging skin.

OLIVE Olea europaea CARRIER OIL

Contains healthy fatty acids - Omega 3 exhibits anti-oxidant properties, preventing inflammation, Omega 6 encourages moisture retention in skin, exhibits anti-inflammatory and anti-irritant properties, promotes and encourages anti-oxidant activity that protect and rejuvenate the appearance of youthful looking skin. It is an effective emulsifier and thickener in cosmetic formulations. Oleic acid Omega 9, an anti-oxidant, prevents inflammation and contributes to the skin's suppleness and moisture levels, reducing the appearance of aging. It may relieve symptoms of dry skin, redness, or irritation. Rich in Vitamin A, E and K, it is a great moisturizer and helps the skin regenerate damaged skin cells, fading scars and smoothing stretch marks. It also has antibacterial properties that will help reduce infections and breakouts. It is rich in squalene, which is a compound with antioxidant, anti-inflammatory, and antibacterial properties to hydrate, lubricate, rejuvenate, soften skin, soothe irritation, heal wounds and scars.

PRICKLY PEAR SEED Opuntia ficus-indica EXOTIC OIL

Prickly pear oil is easily absorbed into the skin. The high levels of linoleic acid Omega 6, the abundance of Vitamin E, Tocopherol, minerals and amino acids, give it powerful antioxidant, anti-inflammatory levels. Vitamin C and K antioxidants known as betalains also help promote wound healing by increasing wound contraction and re-epithelialization. Due to its high betalain content, the oil is also a powerful tool in anti-aging. Prickly pear oil contains many amazing compounds known to have hydrating, antibacterial, and antioxidant properties to reduce skin inflammation, as well as prevent skin damage. Prickly Pear Seed Oil boasts nearly one and half times the amount of vitamin E found in Argan Oil. Vitamin E is known to help heal wounds faster and aid in skin regeneration.

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RICE BRAN Oryza sativa OIL

This oil is high in fatty acids Omega 3, 6 and 9. A rich source of proteins, fats, minerals and micronutrients, Vitamin B6 and Vitamin E Tocopherol. It is one of the best sources of tocotrienol, an antioxidant which may be many times more powerful and effective than Vitamin E. Rice bran oil promotes hydration, reduces pigmentation, and helps keep the skin and scalp stay soft, supple and smooth. Light in texture, it is easily absorbed into the skin. It has high levels of anti-oxidants, anti-inflammatory, antiviral, antibacterial, antifungal activity. Rice Bran Oil is a potent anti-aging ingredient since it offers protection against sun UV rays. Additionally, the powerful antioxidants in this oil help prevent free radical damage. It also aids in cell regeneration healing wounds and scars.

SANDALWOOD SEED Santalum spicatum EXOTIC OIL

Sandalwood seed oil contains one of the rarest fatty acids found in the plant kingdom, ximenynic acid. It is a reliable source of acetylenic fatty acid called ximenynic acid (28-36.5%), which is an anti-inflammatory. Together with the emollient and nourishing properties of oleic acid with minor quantities of other common fatty acids, researchers have identified the pharmacological properties of Ximenynic acid as a potent anti-inflammatory agent that increases micro-circulation in skin and micro-vascular constriction to reduce varicose veins and cellulitis. It reduces sebum secretion (oily skin) and reduces fat deposition under skin (Adipose tissue). It improves skin tone, fine lines, increases skin hydration, derma strength and increases dermal micro-circulation. It contains Omega 3, 6 and 9. Its properties support scar and wound healing via skin regeneration, treatment for acne, metabolic function, blood flow, circulation, and reduction of hyper-pigmentation in the skin, all of which leave the skin looking younger.

SESAME Sesamum indicum EXOTIC OIL

Is rich in essential fatty acids and has a balanced ratio of omega 3, 6, and 9. It is full of anti-oxidant, antimicrobial and anti-inflammatory activity. Rich in vitamin E and phytosterols, it contains lignans, sesamol, and sesaminol. These compounds help fight free radicals. antibacterial, antifungal, and is an emollient. Due to its antibacterial properties, it is good for wound healing and scare tissue. Some research shows that sesame oil may protect against damage from UV rays, as well.

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SHEA NUT Vitellaria paradoxa EXOTIC OIL

Its tocopherol or vitamin E component may aid in fading skin scars, acne scarring and stretch marks, gradually evening out skin tone. This could give a smooth monotone complexion. The main components of Shea Nut Oil are Omega 9 Oleic Acid, Omega 6 Linoleic Acid, Stearic Acid, Palmitic Acid, and Triterpenes. The active properties boost collagen production, help promote cell regeneration by boosting circulation, keeping connective tissue strong and supple. As Shea Nut Oil easily penetrates and is absorbed almost instantly into the skin, it softens and moisturizes dry skin, leaving skin with a healthy glow. It will not leave skin greasy like alternatives. Pure shea oil is non comedogenic, so it will not block pores. It is anti-aging, anti-inflammatory and evens skin tone.

SWEET ALMOND Prunus amygdalus dulcis OIL

Antibacterial, antifungal, anti-inflammatory, rich in essential fatty acids (linolenic acid Omega 3, linoleic acid Omega 6 and oleic acid Omega 9), and vitamins A & E, B7 or biotin and K, which is a natural antioxidant. A great source of magnesium, phosphorus, and copper. Almond Oil's constituents will help sooth dry skin and can improve complexion and tone. The antibacterial properties and richness in vitamin A make it suitable in helping treat acne. The vitamin E content can help heal sun damaged skin, help with signs of aging, prevent stretch marks and fade scars. Almond oil also contains retinol, vitamin E, and vitamin K, which can keep the delicate skin under eyes smooth without irritating it.

TAMANU (FORAHA) Calophyllum inophyllum EXOTIC OIL

The main chemical constituents of Tamanu Oil are Omega 3,6, 9, powerful antibacterial, antioxidants and anti-inflammatory compounds. They also contribute to the skin's suppleness and moisture levels. Exhibiting antioxidant properties, they help fend off the impact of free radicals, reduce the appearance of aging, such as age spots, premature wrinkles, and fine lines, and relieve symptoms of dry skin or redness. Omega 6 helps prevent some of the most common scalp and skin conditions such as flaky residue, dandruff, all of which are due to skin and scalp inflammation. Omega 3 also helps soften rough, dry skin and has a soothing effect on irritation and dermatitis, eczema, acne and inflammatory conditions of the skin. The Palmitic Acid, Stearic Acid, Tocotrienol/Vitamin E and other anti-oxidant activity, repairs and improves damaged skin while naturally enhancing the skin's regeneration process, thus often alleviating discoloration and pigmentation. Tamanu promotes tissue formation and the growth of healthy skin cells - this is the key to the oil's scar-reducing potential. It can infiltrate all three layers of skin - the epidermis, dermis and hypodermis. It soothes, repairs, and diminishes redness, scars, stretch marks, irritation, itchiness, dryness, and peeling leaving skin looking smooth and young looking.

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Essential Oils for Scar and Wound Healing

CEDARWOOD Cedrus atlantica **OIL**

The rejuvenating effect of cedar wood oil shows potential in treating skin conditions including scars. More research is needed, but it has shown to reduce inflammation and to provide a pain-relieving effect. Cedar wood oil is also useful in treating acne.

CHAMOMILE ROMAN Chamaemelum nobile EXOTIC OIL

One of the gentlest essential oils, making it great for treating sensitive skin issues. Antiinflammatory, anti-allergenic and supports calmness.

FRANKINCENSE Boswellia frereana (and serrata) EXOTIC OIL

Commonly used for lightening hyperpigmentation, scars, blemishes and even dark circles around the eyes.

GERANIUM Pelargonium graveolens **OIL**

Is useful in treating scars by relieving inflammation, evening out skin tone, encouraging new cell growth. Its antiseptic, antimicrobial, and antibacterial wound-healing properties may help make scars less visible. In 2013, research found that rose geranium oil is effective in preventing and treating inflammatory skin conditions.

HELICHRYSUM Helichrysum italicum EXOTIC OIL

Has shown to have anti-inflammatory, antifungal, and antibacterial properties that may be useful in healing skin. It contains a unique anti-inflammatory substance called arzanol, which plays a part in healing wounds. It also has antioxidant properties that can help to prevent scarring by regenerating new cells and preventing the accumulation of free radicals.

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Essential Oils for Scar and Wound Healing

KUNZEA Kunzea ambigua EXOTIC OIL

Known for its antibacterial, anti-microbial, and anti-inflammatory properties, it's also TGA listed for pain-relieving, soothing abilities for skin, showing temporary relief of arthritis, rheumatism, muscular aches and pains, insect bites and insect bite inflammation, and cold and flu symptoms. Furthermore, it has a good reputation for easing stress, nervous tension, and mild anxiety, and may reduce visibility of scars.

LAVENDER Lavandula angustifolia OIL

May help prevent scarring by promoting cell and tissue growth. It has antibiotic, antioxidant, and antiseptic properties. According to a 2016 study, lavender oil demonstrates wound-healing activity and shows potential for use as a natural treatment to help repair damaged skin tissues. Another 2016 study found that lavender essential oil promotes wound healing by increasing collagen and regenerating tissue, especially in the early phase of treatment. Topical application of lavender oil may help speed up wound closure and promote wound shrinking.

LEMON Citrus limonium OIL

Helps stimulate circulation, clear skin, reduce viruses and bacteria, and calm inflammation. Its properties can speed up healing from breakouts and treatment of acne scars, as well as cellulite. It has antioxidants, and antimicrobial properties, which aid in healing scars as well.

JUNIPER BERRY Juniperus communis OIL

Juniper berry's antiseptic properties promote healthy skin conditions, and its astringent properties assist in toning skin. It is rich in flavonoids that function as potent antioxidants and may help reduce inflammation, helping skin wounds heal. Providing anti-inflammatory and antioxidant, antibacterial and antifungal activity, it may reduce effects of scarring.

NEROLI Citrus aurantium amara EXOTIC OIL

Several small studies, including one reported in the Pakistan Journal of Biological Sciences, indicate that neroli oil has antimicrobial, antifungal, and antioxidant properties. This may make it helpful for reducing acne breakouts and skin irritation. It is good for sensitive skin and circulation.

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Essential Oils for Scar and Wound Healing

SANDALWOOD Santalum spicatum EXOTIC OIL

It has anti-inflammatory, anti-bacterial, antiseptic and astringent properties, just to name a few. Its anti-inflammatory properties have been found to assist with clearing acne, soothing sunburn, treating insect bites and healing wounds. It has also been found to relieve itchiness and inflammation of the skin, which is beneficial for eczema, rosacea or dry skin conditions, relieving itching and inflammation.

TEA TREE Melaleuca alternifolia OIL

Has enormous healing potential due to its antiviral, antibacterial, and antifungal effects. The antioxidant and antimicrobial activity may accelerate the wound-healing process. It also has antiseptic and anti-inflammatory properties. Its ability to boost immunity is helpful when you're caring for wounds and scars. In 2015, research indicated that tea tree is a promising option to topically treat inflammatory disorders and heal wounds. Tea tree is available as an essential oil and can come diluted.

THYME RED Thymus vulgaris OIL

Thyme oil has anti-inflammatory and antibacterial activity, provided by compounds such as Thymol, which has been documented in several studies to reduce inflammation and infection. According to recent research, it stimulates the layers of the skin, which can aid in healing scars.

TURMERIC ROOT Curcuma longa EXOTIC OIL

It's a potent anti-inflammatory and antioxidant, due to its compounds including Curcumin, a potent antioxidant that can neutralize free radicals due to its chemical structure.

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Butters for Scar and Wound Healing

In general, what these butters all have in common is that they have anti-inflammatory properties and that they're gentle (great for not just wound and scar healing, but for moisturising any sensitive skin!).

COCOA Theobroma cacao **EXOTIC BUTTER**

It contains fatty acids Omega 6, 9, Stearic Acid, Palmitic Acid, Arachidic Acid, Palmitoleic Acid, Vitamin E, Vitamin K, Alpha-Linolenic Acid, and Phytosterols (namely Stigmasterol). It is known for its high oxidative stability because of it being naturally rich in antioxidants and Vitamin E. It melts at body temperature and works to naturally soothe dry, sensitive skin while reducing and preventing the appearance of scars and unwanted marks. It is believed to have photo-protective properties that protect against harmful UV radiation. The anti-inflammatory properties moisturize and relieve skin afflicted with swelling, irritation, and redness. The polyphenols in Cocoa Butter are known to diminish the appearance of aging by enhancing skin's moisture content, skin tone, elasticity, and collagen production.

COFFEE Coffea arabica **BUTTER**

Is one of the richest sources of antioxidants, which protects the skin against free radicals. It also restores skin smoothness and protects against UV light. It improves blood flow giving skin a radiant look. It tightens the skin to reduce the appearance of cellulite, and prevents wrinkles. It's packed with vitamin E, fatty acids Omega 3 and 9 with strong antioxidants, promoting wound and scar healing. It has moisturizing properties, which give the skin a youthful look. It has a high concentration of chlorogenic acid, fatty acids, and phytosterols, both hydrating and softening to reduce the appearance of cellulite, help manage symptoms of acne, sores, itching, scaling and dead cell build-up, like scar tissue.

MANGO Mangifera indica EXOTIC BUTTER

Has fatty acids Omega 6, 9, Palmitic Acid, Stearic Acid, Arachidic Acid and is high in Vitamin A, C, and E. Its high vitamin content protects skin against harsh environmental damage caused by overexposure to harmful UV radiation. Mango butter has moisturizing, softening and regenerative properties when applied to the skin, while reducing the appearance of dark spots. It has a protective effect against UV radiation. The emollients nourish skin by boosting its elasticity, tightening skin, making skin look smoother and firmer reducing the appearance of fine. It easily melts on skin contact and penetrates without leaving it greasy. The anti-oxidant, anti-inflammatory and anti-aging properties of Mango Butter make it an effective soothing agent for skin afflicted by dryness, eczema, dermatitis, and facilitates wound healing by restoring and maintaining moisture levels and by boosting cell regeneration. Mango Butter leaves skin looking plump, thereby promoting a rejuvenated, revitalized appearance.

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Butters for Scar and Wound Healing

MORINGA Moringa oleifera EXOTIC BUTTER

The main constituents of Moringa Butter are Behenic Acid, Palmitic Acid, Stearic Acid, and Omega 3, 6 and 9. Also rich in vitamins C and E, it exhibits anti-oxidant properties, soothes dryness and protect skin from the harsh elements. It's gentle on sensitive skin, replenishes the moisture barrier and promotes moisture retention, facilitating wound and scar healing. Exhibit anti-inflammatory properties, reducing acne, promoting wound and scar healing, stimulating production of collagen and cell regeneration to keep skin healthy, strong, and firm.

SHEA NUT (Sheanut) Vitellaria paradoxa BUTTER

The fatty acid profile composed primarily of stearic and oleic acids with lesser amounts of palmitic, linoleic and arachidic acids gives it a high level of saponifiable function. It protects the skin from the harmful effects of weather and ultraviolet rays, repairs scars and stretch marks. It has high levels of vitamins A, E and F and rich in antioxidants, which can help prevent fine lines and wrinkles brought on by free radicals. It hydrates skin by restoring moisture balance that contributes to it elasticity, boosts circulation and encourage faster regeneration of healthy skin cells. Shea butter contains triterpenes, a naturally occurring chemical compound that is thought to deactivate collagen fibre destruction. Shea Nut Butter has sun protection properties and acts as an emollient. It has anti-aging and anti-inflammatory properties. It is solid at room temperature but melts when applied to the skin.



To discover more about our natural solutions for your formulations ask us about our additional application brochures.

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Tattoo Removal Scars and Wound Healing Products

Need some help or more information? Please contact our ingredient experts for customised recomendations based on your objectives. <u>sales@napproducts.com</u>

SAFETY FIRST

Essentials oils can be 50-100x more concentrated than natural levels in the plant. Take caution and always mind best practices when using oils. If applying topically, they should be diluted into a carrier oil and ONLY IF they are recommended for ingestion or inhalation, be sure to follow recommended dosage.

EXTERNAL RECOMMENDATIONS

Essential oil:

Several drops rubbed into the skin. (This may be diluted at 30 ml essential oil to 500 ml of a suitable carrier such as vegetable oil.)

Ointment:

Semi-solid preparation containing 5-20% essential oil (in carrier oils, creams, or lotions) for local application. (Salve)

Tincture:

Aqueous-alcoholic preparation containing 5-10% essential oil for local application.

Inhalant:

Add a few (2-5) drops of essential oil to hot water or to a vaporizer; deeply inhale the steam vapor.

Many of our conventional oils and products are also available in Organic form. Those that are Organic are certified by the USDA and Oregon Tilth. Please contact us for more information on our Organic products.



DISCLAIMER

We always aim to source high quality ingredients and have a large range of respected suppliers from around the world. This list is a guide only, correct at the time of publication. If you are after an oil not on our list, please contact us and we can see if we can source it for you. As products are plant sourced and natural, availability is reliant on many factors outside our control. Despite our best efforts, we cannot guarantee the availability of any of our products at any given time. The use of the products listed in this document is to be considered as a guide only and further advice should be sought from your formulating chemist and/or health practitioner.

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