

paradisenuutrients

# M.A.T.E. Industrial Hand Cleaner



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M.A.T.E

# Industrial Hand Cleaner

M.A.T.E Industrial Hand Cleaner is a non toxic powerful heavy-duty plant based hand cleaner. This unique formula contains Melaleuca Alternifolia Leaf Extracts, (Tea Tree Oil), Coconut extracts and fruit extracts to quickly and effectively cleanse the hands of grease, oil, dirt and other spoils leaving them feeling fresh and supple. It contains no petroleum solvents or harsh alkalis so it will not dry out or crack the user's skin or leave harsh solvent odours. It contains selected conditioning agents and a non-persistent perfume to keep hands feeling fresh and free from irritation.

## Benefits

- ✓ Free of petroleum solvents and harsh alkalis
- ✓ Heavy duty to clean and remove soil and grime
- ✓ Biodegradable and non-toxic
- ✓ Anti-viral, Anti-fungal, Anti-bacterial
- ✓ 100% plant derived

## Ingredients

- ✓ Tea Tree Oil and Leaf Extracts
- ✓ Coconut Oil Extracts
- ✓ Vegetable Extracts
- ✓ Sodium Chloride
- ✓ Polysorbate 20 Natural
- ✓ Plant Derived Fatty Acids and Minerals



# Who Should use the M.A.T.E. Industrial Hand Cleaner

- ✓ Mechanics
- ✓ Agriculture
- ✓ Miners
- ✓ Construction Workers
- ✓ Plumbers
- ✓ Gardeners
- ✓ Industrial Workshops
- ✓ Tire Fitters
- ✓ Animal Handlers



# Why Go Non Toxic ?

It is important to remember that your skin is the largest organ of your body and what you put on your skin goes into your body.

If you are using harsh alkaline, alcohol or petrochemical based hand cleaners on your hands you may not notice it having an impact on your health now, but these harsh chemicals can cause skin damage or build up in you body and can contribute to serious health issues in the future.

Petrochemicals fall in the category of endocrine disruptors and can interfere with our natural hormone production (including the thyroid) and are associated with neurologic disease, attention deficit disorder and a weakened immune system.

Endocrine disruptors are also associated with certain types of endocrine related cancers, endometriosis, precocious puberty, disturbed lactation and polycystic ovarian syndrome.

Petrochemicals are also associated with inflammation in the body and can lead to increase free radical damage to our cells.



# Understanding skin problems in Mechanics

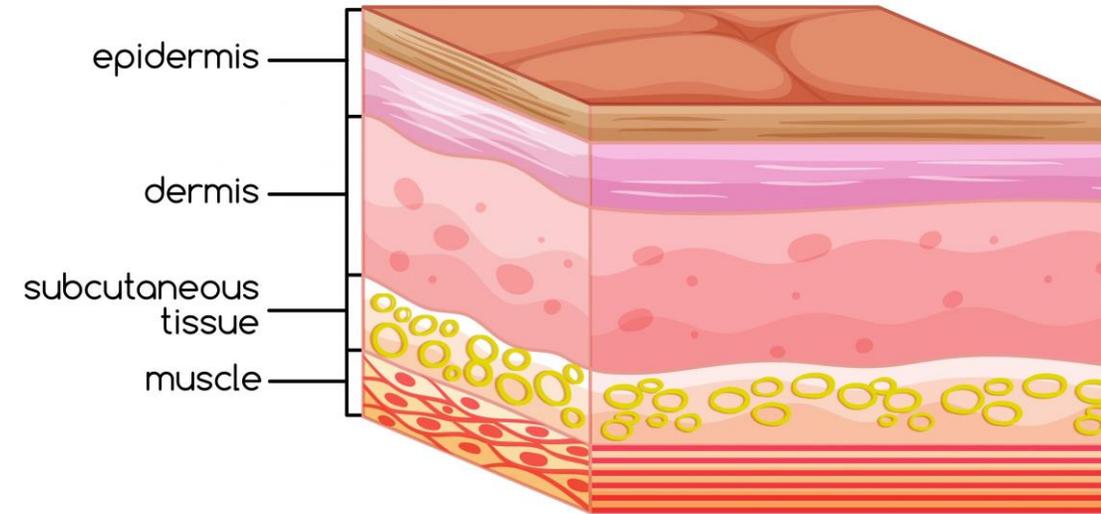
The outermost layer of the skin (the horny cell layer of the epidermis) acts as a barrier to prevent infection and to prevent potential allergens and chemicals from penetrating the skin.

The skin's pH is slightly acidic which can help to neutralize the degreasing agents that are in harsh soaps or hand cleaners, which are alkaline. Excessive use of soaps and some detergents can destroy the acidity and de-fat the surface skin and therefore the protection it offers.

If the moisture content of the skin is too high (overhydrated skin) or too low (dry skin), the skin's barrier function may be impaired and crack. Low moisture caused by dehydrating chemicals will cause the skin to dry out, becoming rough, thickened and flaky. This eventually leads to cracking of the skin because of loss of elasticity. This may allow chemicals or pathogens to enter into your body

Over-hydration of the barrier layer from prolonged contact with water, or from sweating inside gloves also results in dry skin.

## Layers of Human Skin



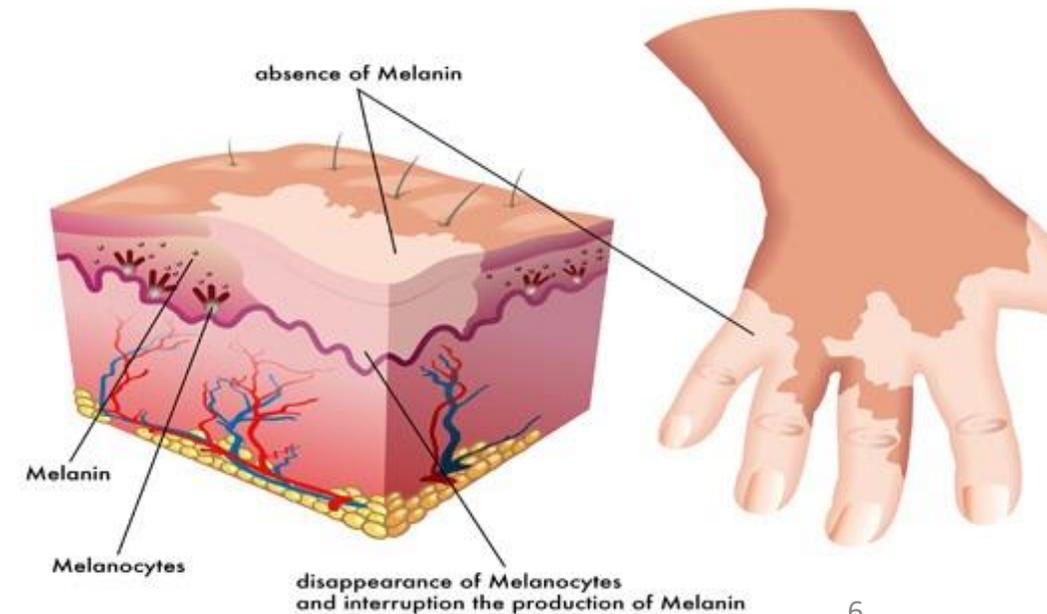
## Hand and Nail Infections

**Hand dermatitis:** wet work and trauma causing a break in the epidermis, predispose to yeast infection, usually presenting as chronic paronychia infected by *Candida albicans* or as intertrigo between the fingers also called erosion interdigital. This is where bacterial infection impetigo, boils and folliculitis are usually caused by *Staphylococcus aureus* and/or *Streptococcus pyogenes*. Bacterial infection also can cause serious damage to your finger nails.



## Leukoderma

Contact leukoderma (sometimes spelt leukoderma), or white skin, occurs when the melanocytes (the pigment-producing cells) are selectively destroyed. Although it may look similar to vitiligo, leukoderma is due to toxic effects on the melanocytes, whereas vitiligo is an autoimmune process. Leukoderma may follow skin contact with chemicals such as phenol, and phenolic resins may be found in brake pads, brake shoes and clutch disks.



## Skin Cancers

Skin cancer is sometimes associated with the motor vehicle repair industry.

Thermal burns and chemical burns in the motor vehicle repair industry can be due to contact with hot surfaces, e.g. exhaust pipes or hot-melt chemicals, sudden release of hot water and steam lines, radiator and cooling system pipes, soldering and welding operations. Scarring will result if the dermal layer of the skin is affected.

In some cases, and mostly associated with chronic burn wounds, malignant changes in the form of a Marjolijn ulcer (a highly aggressive squamous cell carcinoma) have been known to occur in areas of previously traumatised, chronically inflamed or scarred skin. Basal cell carcinomas may also occur in scars such as welding burn scars.

- Repeated exposure to waste engine oil and petroleum-based chemicals (petrol and diesel) may cause skin cancer
- Arc welding operations result in UVR exposure, which may also cause skin cancer



## Allergic contact dermatitis

Allergic contact dermatitis is an immunological response (allergy) to a contact allergen, such as nickel in tool handles such as spanners and wrenches, or epoxy hardeners found in body fillers, sealants petrochemicals and surfactants. Only people who are allergic to a specific allergen agents will show symptoms. The appearance can be exactly the same as irritant contact dermatitis and often co-exists with irritant contact dermatitis. There are some specific features of allergic contact dermatitis.

The allergen may have been previously tolerated for years without causing dermatitis.

Once sensitised the reaction may occur with minimal exposure to the allergen.

Dermatitis may occur not only at the site of primary contact, but also at secondary sites, such as a person who is allergic to rubber gloves may get dermatitis on their hands, and on the face or neck, where they transferred tiny amounts of allergen by accident.

Dermatitis occurs within hours or days of exposure to the allergen.

Symptoms settle down when the skin is no longer in contact with the allergen, although this may take weeks and require treatment.

Allergic contact dermatitis can be confirmed by patch tests.



## Plumbing and Sewage Work

Recent evidence indicates sinks and other drains, such as toilets or hoppers, in public facilities can become contaminated with multidrug-resistant organisms (MDROs). In private homes as well as in public venues these pathogens can stick to the pipes to form biofilms, which allow the organisms to persist in drains for long periods of time and are often difficult or impossible to fully remove.

Plumbers may be exposed to organisms in drains when water splashes from the drain. Splashes may occur when water flow hits the contaminated drain cover or when a toilet or hopper is flushed.

Although workers may use gloves the small droplets may contaminate the work area without knowing it and cause infection. A quick clean with M.A.T.E Industrial Hand Cleaner will give you that assurance you have given yourself the protection you need.



# Agriculture

For many Farmers and Agriculture workers their hands are their tools and may become exposed to many different external pathogens and chemicals every day.

From the chemicals they may handle from bacterial infections to soil, animal bacteria, decomposed plant matter, contaminated water and wildlife they are on the front line of exposure.

Many agriculture industry workers are resilient and just shrug off the odd scratch and exposure and to that they are respected however infection or even serious illness can be avoided with just one 2.5ml of the M.A.T.E Industrial Hand Cleaner.

M.A.T.E contains natural strong and effective anti-viral, anti-bacterial, anti-fungal and anti-mould compounds derived from tea tree oil to assist with killing nasty pathogens while washing your hands, cleaning them from grease oil and dirt.



# Soil Bacterial Infections

Putting your hands in the soil is a totally natural thing to do and for those keen gardeners and agriculture workers that enjoy the soil, all is not safe.

Laying under the surface of the ground are many types of microorganisms and pathogens. While nature can usually keep these under control with sunlight and good bacteria's there are many that may not be naturally controlled.

These pathogens may be indigenous or enter the soil through deliberate introduction. This could be as biological control, indirectly by animal deposits, manure application, from flooding with sewage, contaminated water, or because of soil imbalance from modern day chemical farming practices.

Soil can harbour tetanus, anthrax and botulism, soil bacteria may cause gastrointestinal, wound, skin and respiratory tract diseases along with many other infections. Washing your hands with an anti-viral antibacterial and fungal hand wash like the M.A.T.E. can prevent these nasties from entering your body by eliminating them while still on the surface of your skin.



# Trial

The before and after trial is an example of how well the M.A.T.E Industrial Hand Cleaner works.

The before picture shows a man dipping his hands in a bucket of diesel engine oil and using only 2.5mil of M.A.T.E to clean his hands totally clean. Just one pump of the hand cleaner cleaned all the oil from his hands including from all the pores of the skin and hair follicles.

Reports after the hand cleaning were that his hands were still soft without and drying out and were still soft even 2 days after.

Remember to take you M.A.T.E with you on every job.



Before



After



## Coconut Ingredients

The qualities of coconut based surfactants and compounds used in the M.A.T.E. Industrial Hand Cleaner are, super concentrated ingredients with a high content of surfactant properties mixed with other plant based ingredients to make the M.A.T.E. Industrial Hand Cleaner a high performing grime, grease and oil remover, neutral from harsh chemicals and no environmental pollution.

**Anti-bacterial:** One of the most powerful benefits of coconut oil is that it contains lauric acid (saturated medium chain fatty acid); which is extremely effective in killing viruses, bacteria's and fungi.

**Anti-inflammatory:** Coconut oil contains high levels of antioxidants. These important compounds are essential for our bodies by helping us prevent inflammation, arthritis and joint pain. Using coconut ingredients in the M.A.T.E hand cleaner not only offers cleaning compounds but also many health benefits.



# Tea Tree Oil

The Tea Tree oil and Melaleuca extracts used in Paradise Nutrients industrial Hand Cleaner is from the finest quality tea tree oil found anywhere in the world. Our oil is a genuine product, free from any harmful chemicals, additives, or synthetics. Grown "As Nature Intended"

Our products come from an area in Australia where the Mother Trees are still standing. These trees have been tested to be over 1000 years old. The compounds in these trees and their offspring where to oil comes from contains the original DNA which guarantees original quality and superior strength of the extracts.

It is also well documented that Tea Tree Oil contains some volatile compounds composed of terpene hydrocarbons, mainly monoterpenes, sesquiterpene, and their associated alcohols. Paradise nutrients removes these compounds through a special process without affecting the quality of the active Anti-viral, Anti bacterial, Anti-fungal compounds and concentrating the effective cleaning agent in the oil.



# The Environment

Our tea tree extracts are grown in rich alluvial soil, nestled within the confines of this natural habitat which beams with native wildlife.

This is what gives our oil and extracts its purity and superior quality, seldom found in other oils.

By cultivating, harvesting and distilling our oil directly on the plantation, we have the unique capability to guarantee perfection at every step of the process.

This wonderful natural oil is grown amongst the best that Australian nature has to offer in a clean, green environment. There are no factories, no pollution, no hustle and bustle, just the sweet smell of the forest and tea trees.

We keep our carbon footprint minimal and practice sustainable agriculture. We also protect the native animals that inhabit this distinct region, from the resident emus that live amongst the rows and rows of tea tree to the koalas that keep a watchful eye from the bordering native gum trees.



# Hand Infections

**Hand infections** can cause serious problems and symptoms, both before and after the infection is resolved. They can result in stiff hands, weak hands and loss of tissues such as skin, nerve and bone. It is important to visit a hand surgeon immediately and get early treatment if you have signs of one of these hand infections:

**Atypical Mycobacterial Infection:** This infection can result from puncture wounds from fish spines or contamination of a wound or cut from stagnant water (in nature or from aquariums). It will come on gradually, you may notice stiffness and swelling.

**Bite Wound Infection:** This can be caused by a human or animal bite due to bacteria in the mouth. Seek treatment immediately after a bite wound.

**Cellulitis:** This is a skin infection that can cause skin redness, warmth, and pain. People with cellulitis may have a fever or feel sick. Seek treatment immediately, as this infection can cause serious problems.



**Deep Space Infections:** The hand is divided into many separate “compartments” or “deep spaces.” One or more of these can become infected even from a small puncture wound. An abscess can form in the muscle area at the base of the thumb (thenar space), the palm (deep palmar space), or the web spaces between the fingers. These infections can spread to other areas, even to the wrist and forearm, and need to be drained by surgery.



**Felon:** A painful, throbbing infection of the pulp of the fingertip is called a “felon” (see Figure 1). This closed space is separated into many small compartments, each of which fills with infection and pus. Felon can occur after gardening or other activities that involve sharp objects near the fingertip. Some felons will resolve with soaks and oral antibiotics, but many also need to be drained. If not treated early, destruction of the soft tissues and even bone can occur.



**Herpetic Whitlow:** This is viral infection of the hand, usually on the fingers, caused by a herpes virus. This is more commonly seen in healthcare workers whose hands are exposed to the saliva of patients carrying herpes. The condition, characterized by small, swollen, painful blood-tinged blisters, and sometimes numbness, is typically treated conservatively and usually resolves in several weeks without many after-effects.



**MRSA:** Methicillin Resistant Staphylococcus Aureus, is a bacterium resistant to usual antibiotics used to treat infections. In the past, MRSA was seen in those in a hospital or nursing homes. However, MRSA also can come from community places like gyms, dorms, houses and day-cares. Skin infections usually look like boils or collections of pus.

Sometimes surgery is needed to drain the infection. If you start taking an antibiotic for something that looks like this and it is not getting better over two days, contact your health care provider. It is important that skin MRSA is treated right away to prevent it from causing more serious infections. Also, talk to your doctor about what to do to prevent spread to others.



**Necrotizing fasciitis:** A very rare but severe infection. Streptococcus pyogenes or other “flesh-eating bacteria” enter the body through a cut. Bacteria toxins destroy skin, muscles, and other soft tissue.

Necrotizing fasciitis is a true emergency - it can be life threatening - and very powerful IV antibiotics are given as soon as possible. Urgent surgery is usually needed to remove dead tissue.



**Paronychia:** Paronychia is an infection of the paronychium (pay-roh-NIK-ee-um), which is the area around the fingernail. Paronychia can happen quickly or over time. In acute paronychia, bacteria cause the skin around the nail to be red, swollen and tender. If the infection is treated early enough, soaks and oral antibiotics may cure the infection. If pus has formed under the skin, surgery to drain the pus is needed.



**Chronic paronychia** is caused by fungus; this usually occurs in people whose hands are frequently wet (such as dishwashers). The cuticle area becomes mildly red and swollen, without drainage and only mild tenderness. This may be treated with special medication and elimination of the constant exposure to moisture, which promotes the fungal infection. Surgery sometimes is needed to remove infected tissue.

**Septic Arthritis / Osteomyelitis:** A wound in or near a joint can cause septic arthritis, which is a severe infection in the joint. Even a small needle used to drain a cyst at a joint with arthritis can lead to infection. In just days, the cartilage surface of the joint can be destroyed. Urgent surgical drainage and antibiotics are needed. If this treatment is delayed, infection of the bone, called osteomyelitis (ah-stee-OH-my-uh-LIE-tus) can occur. Septic arthritis with or without osteomyelitis can require one or more surgeries and weeks of intravenous antibiotics.



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