

# ALL NATURAL ALCOHOL & CHEMICAL FREE HAND SANITISING CRÈME

## TECHNICAL DATA SHEET

### THE PROBLEM

The vast majority of hand sanitisers are alcohol based and whilst they have been (generally) proven effective in killing germs, they also present a number of health and use issues. This is also true in non-alcohol based products that contain Triclosans, with numerous studies now identifying the dangers of ongoing use such as;

- **TOXIC**
- **HIGHLY FLAMMABLE**
- **KNOWN TO CAUSE INFERTILITY**
- **LOWERING OF CHILDREN'S IMMUNITY LEVELS**
- **DAMAGE TO YOUR SKIN**

Here are the ingredients listed in a popular alcohol-based hand sanitizer:

*active ingredient: ethyl alcohol 65%*

*inactive ingredients: water, isopropyl alcohol, glycerin, carbomer, fragrance, aminomethyl propanol, propylene glycol, isopropyl myristate, tocopheryl acetate*

Ethyl alcohol 65% - Ethyl alcohol is also known as ethanol, pure alcohol, grain alcohol and drinking alcohol. This is what kills the germs. Ethyl alcohol is used in cosmetics to enhance absorption of other ingredients, which means that anything mixed with it will move through the skin and into the bloodstream more easily. Alcohol improves penetration of other chemicals through the skin by "de-fatting" the skin, which is a disruption of the oils in the skin. This is also the quality that makes alcohol dry out the skin.

Health care workers are warned not to put alcoholics in the same room as hand sanitizers. There have been verified reports of prison inmates getting drunk on hand sanitizers and of children licking hand sanitizers off their hands and getting drunk.

Isopropyl alcohol, also known as rubbing alcohol, is a petrochemical that can be absorbed through the skin and through inhalation of vapours. It is a known neurotoxin, meaning "toxic to the nervous system". It also dries out the skin. Some research shows toxicity even in low doses when used around the eyes and lips. Rubbing alcohol was once used to rub down children with a fever. The practice was discontinued after some infants died or went into a coma from repeated rubdowns. The Environmental Working Group's (EWG) toxicity rating of isopropyl alcohol is a 4 on a scale of 1 to 10, with 10 being most toxic.



### CASE STUDIES AND ARTICLES

Patient misuse of these products as intoxicants has been reported in prisons, emergency rooms, and medical units. We report? 2 cases of psychiatric inpatients who intentionally ingested alcohol-based hand sanitizers to become intoxicated.

**Current**  
PSYCHIATRY

The hidden danger of handsanitizer

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In a study published in the Science Daily, carried out by the Northwestern Research Centre, it was found that a child's immunity is seriously affected by the use of hand sanitizers. They found that more kids were falling ill due to innocuous and preventable diseases after the long term use of the agent. The study specifically looked for the production of inflammatory products; called C-reactive protein (CRP) in the children's urine samples. They concluded that ultra clean environments during the early stages of a child's life lowers their immunity to such a level that the defence mechanism in their bodies is in a constant fighting mode, which leads to weakened immunity.

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Studies have linked Triclosan to anti-biotic resistance and hormone problems, prompting a safety review by the US Food and Drug Administration.

A study in the Journal of Antimicrobial Chemotherapy reports that when it comes to normal handwashing, there is "no significant difference" between the bactericidal effects of plain soap and antibacterial soap. Triclosan only became effective after microbes had been steeped in the soap for nine hours.

**West Australian**  
17<sup>th</sup> September 2015

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"Health officials at Children's Hospital Los Angeles issued a warning Tuesday, saying hand sanitizer certainly can be dangerous. In the past few weeks, eight teenagers have visited local emergency rooms after distilling or drinking the gel, and 2,600 cases of hand sanitizer overdoses have been reported in California since 2010"

**CBS New York**

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## THE SOLUTION

In recent university studies our product was compared to several other leading hand sanitising solutions. The effectiveness of these products against four bacterial species was compared to that of povidone iodine, a commonly used hospital hand wash. The study showed that our product could play a role in reducing hospital-acquired infections such as those caused by *Staphylococcus aureus*, or 'golden staph'. Encouragingly, it has been demonstrated that hospital staff with access to our hand crème or our hand washes show greater compliance with hand washing procedures as it is naturally soothing and moisturising while it is sanitising.

Choice Chem has developed an all-natural sanitising product comprising non-toxic ingredients, manufactured in Perth Western Australia

Using essential oil from sustainable plantations, this incredible product contains unique Australian flora. This ALL NATURAL HAND SANITISING CRÈME meets the strict international standards for purity.

The benefits of our product

- **ALCOHOL FREE**
- **FREE FROM TOXIC CHEMICALS SUCH AS TRICLOSAN**
- **AUSTRALIAN DEVELOPED**
- **AUSTRALIAN MADE**
- **CONTAINS AUSTRALIAN FLORA**
- **SAFE FOR USE BY CHILDREN**
- **LOW ALLERGY FORMULA**
- **MOISTURISES THE SKIN**
- **CANNOT BE OVER-USED**
- **PLEASANT AND NATURAL FRAGRANCE**

## THE SOLUTION

Our product is a unique blend of essential oils distilled from the Australian tree known as Melaleuca. It has been used medicinally by Australian Aborigines for centuries and was identified as an antiseptic by the New South Wales chief chemist in the 1920s.

These species are unique to Australia, and plants with the genetic makeup necessary to produce the oils containing the correct balance are now available in our:

ALL NATURAL ALCOHOL & CHEMICAL FREE HAND SANITISING CRÈME.

### BEWARE OF PRODUCTS CONTAINING IMPORTED AND INFERIOR MELALEUCA OILS



## APPLICATION

Apply directly to the skin and rub until the lotion has been absorbed.

## PRODUCT SIZES

125ml personal pack  
1l pump pack  
20l refill

250ml pump pack  
5l refill  
200l bulk



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