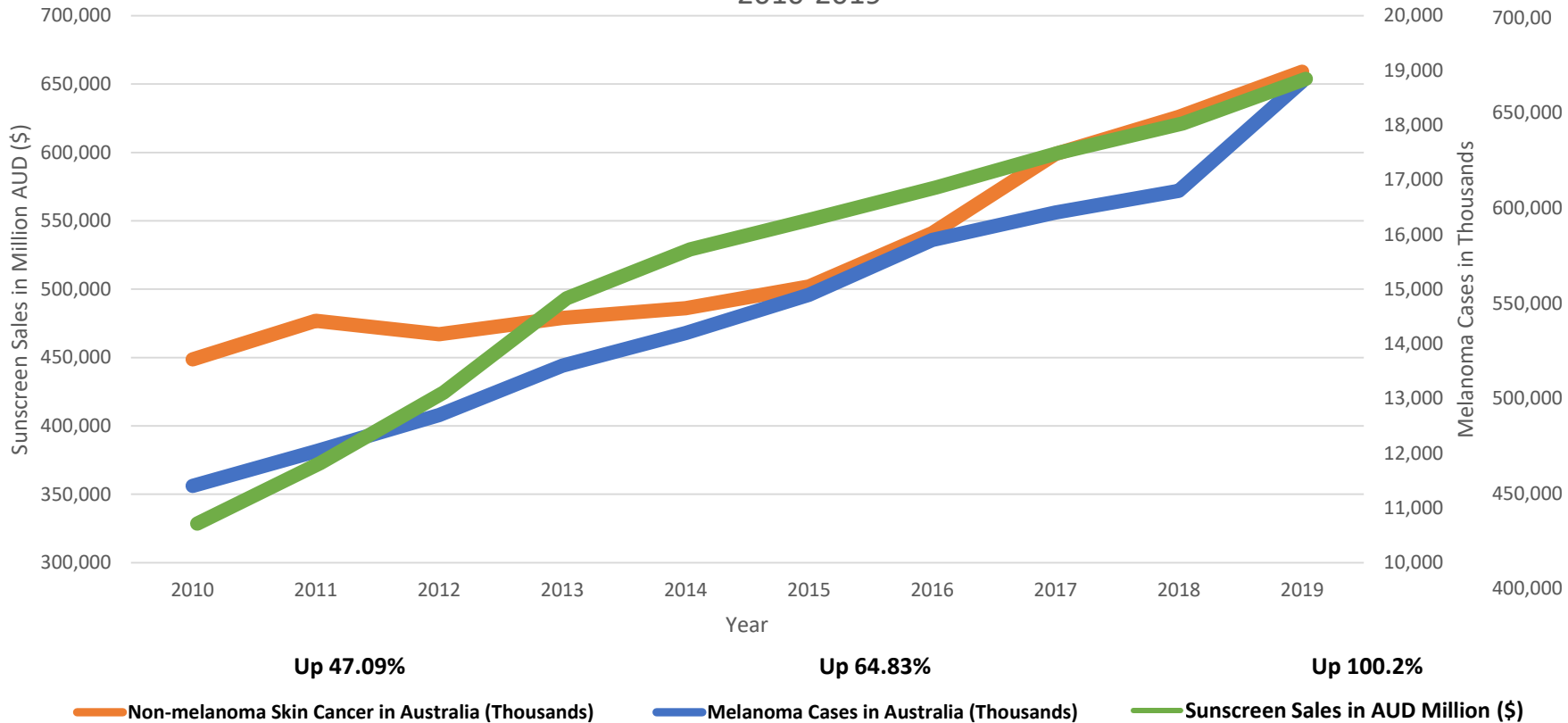


# Sunscreen Spend up 100.2%, Melanomas up 64.83% & Non-Melanoma Skin Cancers up 47.09%

Australian Sunscreen Sales Against Australia's Melanoma & Non-Melanoma Skin Cancers from 2010-2019



The following chemical UV filters, once they have been converted by a reaction between UV on your skin, only exert an anti-inflammatory effect.

- Oxybenzone
- Homosalate
- Octisalate
- Octocrylene
- Avobenzone
- Mexoryl SX
- Tinosorb S
- Uvinul A Plus
- Tinosorb M
- Neo Heliopan AP
- Uvinul T 150
- Parsol SLX
- Iscotrizinol

- **The anti-inflammatory effects of certain substances, such as those found in some chemical sunscreens or after-sun products, could potentially mask the visible signs of sun damage, including redness and inflammation. This could make it harder to recognise when your skin has been exposed to too much UV radiation and when it is time to seek shade or reapply sunscreen.**

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# Work Place Health & Safety

QLD WORK SAFE recommends the “use of Zinc Sunscreen for Lips, Ears and Nose.”

## WORK HEALTH AND SAFETY ACT 2011

### 17 Management of risks

A duty imposed on a person to ensure health and safety requires the person:

- (a) to eliminate risks to health and safety, so far as is reasonably practicable; and
- (b) if it is not reasonably practicable to eliminate risks to health and safety, to minimise those risks so far as is reasonably practicable.

### Subdivision 2—What is reasonably practicable

### 18 What is *reasonably practicable* in ensuring health and safety

In this Act, *reasonably practicable*, in relation to a duty to ensure health and safety, means that which is, or was at a particular time, reasonably able to be done in relation to ensuring health and safety, taking into account and weighing up all relevant matters including:

- (a) the likelihood of the hazard or the risk concerned occurring; and
- (b) the degree of harm that might result from the hazard or the risk; and
- (c) what the person concerned knows, or ought reasonably to know, about:
  - (i) the hazard or the risk; and
  - (ii) ways of eliminating or minimising the risk; and
- (d) the availability and suitability of ways to eliminate or minimise the risk; and
- (e) after assessing the extent of the risk and the available ways of eliminating or minimising the risk, the cost associated with available ways of eliminating or minimising the risk, including whether the cost is grossly disproportionate to the risk.

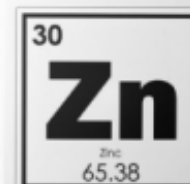
## THE IMPORTANCE OF ZINC

Zinc (Zn) is a key micronutrient for marine phytoplankton (Weber 2018).

In the Tasman Sea, extremely low zinc concentrations have been reported, raising the possibility there of limitation of phytoplankton growth by zinc (Sinoir 2016).

Zn deficiency caused reduced growth rate, increased mortality, low body weight, skeletal deformities, cataracts and fin and skin erosion in fish (Akram 2019).

Zinc is required for the normal growth, development and function of mammals. It is an essential element of more than 200 metalloenzymes, including the antioxidant enzyme, superoxide dismutase, and affects their conformity, stability, and activity. Zinc also is important for the proper functioning of the immune system, and for glandular, Reproductive and cell health. (Elizabeth F. Rostan md).



# The FDA (Food & Drug Administration, USA) sunscreen safety review, published 24/09/2021, has confirmed zinc oxide to be the only broad-spectrum UV Filter considered safe and effective (GRASE).

## • **UVA/UVB/UVC & Blue Light Broad Spectrum**

- “Of the available sunscreens only zinc oxide provides effective protection across the UV band range of 240 to 400 nm, covering UCV (240 to 280 nm), UVB (280 – 320nm), UVA 2 (320 to 340 nm), and UVA 1 (340 to 400 nm).” [9]
  - “UVA rays account for 95% of our sun exposure. They cause skin aging and contribute to skin cancer.”
  - “The risk for skin cancer doubles in people who have had five or more sunburns.”
  - “UVA rays penetrate deeply into the skin layers, damaging collagen and cells which leads to wrinkling, hyperpigmentation and loss of elasticity.”
  - “UVB rays mostly affect the outer layers of the skin.” [10]

## • **Zinc Oxide Safety**

- “Treatment with both types of uncoated ZnO nanoparticles mobilized pathways and responses centered on cellular stress, survival and apoptosis.” [11]
- “A new study led by two Australian universities has found evidence that zinc oxide nanoparticles used in sunscreen does not cause cellular toxicity even after repeated applications.” [11]
- “The levels we found in blood were very small,” says McCall, a research consultant on nano0safety at CSIRO. “After applications over five days, the levels of the tracer zinc in the blood were one thousandth of what is the naturally occurring total zinc levels in the blood.” [11]

## • **Zinc Anti-Bacterial & Wound Healing**

- “Zinc has been used during the regime of Pharaohs, and historical records show that Zinc Oxide was used in many ointments for the treatment of injuries and oils even in 2000BC.” [12]
- “Of all natural and synthetic wound dressing materials, the chitosan hydrogel microporous bandages laced with zinc oxide nanoparticles developed by Kumar Etal are highly effective in treating burns, wounds and diabetic foot ulcers.” [12]

## • **Hypoallergenic**

- “A study in Denmark, 56.7% of women (3,288,600 million) and 33.6% of men (1,948,800 million) in Denmark have experienced an adverse effect after using cosmetics at least once.” [13]
- “In a study in which a 25% zinc oxide patch (2.9mg/cm<sup>2</sup>) was placed on human skin for 48 hours, there was no evidence of dermal irritation.”
- “In another study comparing the dermal effect of different zinc compounds in mice, rabbits and guinea pigs, zinc chloride was clearly the strongest irritant, followed by zinc acetate, causing moderate and zinc sulfate, causing low irritations. Consistent with the study of Agren, zinc oxide did not show any irritant effect on skin.” [14]

## • **Infants, Babies and Pregnancy**

- The FDA’s release published 24/08/2021 stated that “infants are at greater risk than adults of sunscreen side effects. “Zinc Oxide is considered safe for infants by the FDA and is even present at up to 40% in nappy rash creams. Therefore, if there is a situation where sun protection such as protective clothing or shade is not available the safest option for babies is a Natural Zinc Based 100% Organic Vegan Sunscreen. Amazon US search volume (Year on Year 2020/2021) has shown that ‘organic baby sunscreen’ now represents 25% of baby sunscreen searches versus 9% the previous year, indicating a large and growing market.





# Our Regulatory Documentation

Technical Information

TGA License  
MI-2022-LI-08123-1



## Licence to Manufacture Therapeutic Goods – Part 1

Licence Number:  
MI-2022-LI-08123-1

Granted to:  
Veganic SKN  
ABN: 53 142 515 437

Primary Manufacturing Site Address:  
Unit 3/81 Shettleston Street  
Rocklea QLD 4106

Secondary Manufacturing Site Address:  
Unit 1/81 Shettleston Street  
Rocklea QLD 4106

The manufacturer above is hereby authorised under Section 38 of the *Therapeutic Goods Act 1989* to carry out the following steps in the manufacture of therapeutic goods at the manufacturing site addresses specified above.

Primary Site: Unit 3/81 Shettleston Street, Rocklea QLD 4106

Manufacturing Type	Sterility	Dosage Form	Product Category	Manufacturing Step
Sunscreen manufacture	Non Sterile	Topical Sunscreen Forms, Liquids Group	Listed Therapeutic Good	Full Product Manufacture - excluding Testing
Sunscreen manufacture	Non Sterile	Topical Sunscreen Forms, Semi Solids	Listed Therapeutic Good	Full Product Manufacture - excluding Testing

Secondary Site: Unit 1/81 Shettleston Street, Rocklea QLD 4106

Manufacturing Type	Sterility	Dosage Form	Product Category	Manufacturing Step
Medicine manufacture	Non Sterile	All Dosage Forms	Listed Therapeutic Good	Storage


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PO Box 100 Woden ACT 2606 ABN 40 939 406 004  
Phone: 1800 020 653 Fax: 02 6203 1605 Email: [info@tga.gov.au](mailto:info@tga.gov.au) [www.tga.gov.au](http://www.tga.gov.au)




Page 1 of 2

100% Organic Audited



PHARMCHEM TECHNICAL SERVICES PTY LTD  
Technical Consultancy to the Pharmaceutical and Life Science Industries  
ACN 107 645 303



### LETTER OF ORGANIC AUDIT

Formulation Assessment - Organic  
The following table is a review and assessment of conformance of the ingredients as "organic".

Zinclear XP Dispersion Range Ingredient	Function	Source	NOP Compliant	NSF/ANSI-305-2016 Compliant & Ref.	% Allowed
Zinc Oxide	UV block	Mined mineral	Yes	Yes	
Aluminum Oxide	UV block	Mined mineral	Yes	Yes	
Zinc Oxide/Aluminium Oxide Blend	UV block	Mined mineral	Yes	Yes	
Isostearic Acid	Carrier	Botanical	Yes	E.21, E.2.3, E.2.7, 6.5	no limit
Polyglycerol-3-polycricinoleate	Carrier	Botanical	Yes	E.2.4, E.2.5, 6.5	NMT 98
Cocos Nucifera Oil (Coconut Oil)	Carrier	Botanical	Yes	Certified by supplier	no limit
Helianthus Annuus Seed Oil (Sunflower Oil)	Carrier	Vegetable Oil	Yes	Yes Certified by supplier	no limit

Tennyson, S.A. 5022, Australia Phone: +61 (0)401 657 477 Email: [pharmche@ozemail.com.au](mailto:pharmche@ozemail.com.au)

100% Certified Vegan



### Vegan & Vegetarian Certification LETTER OF CERTIFICATION

VeganicSKN Ltd

Code	Product	Status
	30% Zinc Oxide Sunscreen	Vegan
	Anti-Aging Eye Sunscreen SPF50	Vegan
	Anti-Aging Facial Sunscreen SPF50	Vegan
	Anti-Aging Moisturising Sunscreen SPF50	Vegan
	Baby Rash Sunscreen SPF50	Vegan
	Body Moisturising Sunscreen SPF50	Vegan
	Body Sunscreen SPF50	Vegan
	Brightening Eye Sunscreen SPF50	Vegan
	Dark Circles Eye Sunscreen SPF50	Vegan
	Dry Skin Sunscreen SPF50	Vegan
	Facial Moisturising Sunscreen SPF50	Vegan
	Facial Sunscreen SPF50	Vegan
	Facial Sunscreen with Hyaluronic Acid SPF50	Vegan
	Hydrating Facial Sunscreen SPF50	Vegan

*R.R.*  
AUTHORIZED SIGNATURE  
RICHARD RABKIN  
MANAGING DIRECTOR

Unauthorised use of the VegeCert symbol is a violation of applicable food labeling, dietary and copyright law.

Expires: July 31, 2023

3200 DUFFERIN ST #308 | TORONTO, ON | [INFO@VEGECERT.COM](mailto:INFO@VEGECERT.COM) | [WWW.VEGECERT.COM](http://WWW.VEGECERT.COM)

## About Us:

VeganicSKN is trusted by over 35 Brands Globally. Our TGA Audited manufacturing facility is 100% organic and audited by PHARMCHEM Technical Services to NSF/ANSI 305-2021 standards, as well as Certified Vegan by VegeCert UK. All our products qualify for the 'Made in Australia' logo and we comply with 'Free From' lists of major retailers such as Mecca, Sephora & Walmart.



## Testimonials

### ZINC

#### **Mark Chandler, B.Sc. Chemistry, President of ACT Solutions Corp.**

Our Products:

We at ACT Solutions Corp have found so much value in the exciting new ZinClear XP dispersions. Two incredible example formulations have been developed in our US labs using the ZinClear XP53 Coconut dispersion which have caused quite a stir in the industry for their tactile and visual properties (non-greasy and non-whitening), high biobased content, cold-processibility, and high in-vitro SPF. Coconut Care SPF uses 32.5% of the wonderful coconut dispersion (approximately 17% ZnO) to achieve an in-vitro SPF of over 70, and Coconut Luxe Ultimate Sun Defense employs 39% coconut dispersion (roughly 21%) yielding an in-vitro SPF of 74.0.

Yes, ZinClear XP Powder is exceptional! Achieving good SPF with ZnO can be difficult, but here are two strategies as shown in the formulations attached for getting excellent efficiency with ZinClear technology. The two attached formulations with 20% and 17.5% active ZnO respectively have in-vitro SPF readings above 100, with Critical Wavelengths of greater than 372nm. Both feel wonderful and do not leave a white cast on the skin.

#### **Julian Hewitt, B.Sc. (Hons.) Chemistry, Director of JPH SunCare Technologies Ltd.**

ZinClear XP65 COCO

This easy to use zinc oxide dispersion combines high efficacy with transparency on skin. The high solids content of the dispersion. The carrier oil, coco-caprylate/caprata, is ideal for a variety of cosmetic applications with its light, soft skin feel. The high solids content of the dispersion provides the formulator with flexibility, allowing for other emollients to be combined with to tailor the skin feel to different requirements. In terms of efficacy, with the right formulation, ZinClear XP65COCO can deliver as much as 2 SPF units per % of ZnO. All components of the dispersion are natural or naturally-derived, so it is COSMOS-approved and fits perfectly with the trend for natural formulations.

#### **Brian Kearney, Director of Ethical Zinc Pty Ltd**

“VeganicSKN’s product development capabilities are unmatched. Their focus on 100% Organic & Vegan aligns with our ethical values. They are quick to adapt, always on top of the latest trends and leverage the most advanced technology in sun care.”

#### **Dr Russell Hills, M.B.S.S. (QLD). F.A.C.D., F.A.C.C.S. Dermatologist and Cosmetic Dermatology Surgery**

“I have developed a zinc oxide sunscreen (Aesthetix) which contains no chemical sunscreens and is therefore SPF50, broad spectrum and reef safe. It is also 100% organic and 100% certified Vegan and is available in tinted and non-tinted forms.”

## Zinc Oxide is Safe - References

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## Countries where Chemical UV Filters Banned or Proposed to be banned:

	Octinoxate	Avobenzene	Oxybenzone (Bp-3)	Methylbenzylidene Camphor	Homosalate	Octocrylene	Methylparabens	Phenoxyethanol	Octisalate	Ensulizole	Meradimate	Padimate O	Sulisobenzene (Bp-4)	Dioxybenzone (Bp-8)	Cinoxate
USA				✓											
Hawaii	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
U.S. Virgin Islands			✓	✓		✓	✓								
Japan		✓	✓	✓	✓				✓	✓	✓	✓		✓	
Sweden			✓								✓	✓			
Nature Reserves Mexico	✓	✓	✓	✓	✓	✓								✓	
Aruba			✓												
Marshall Islands	✓	✓	✓	✓	✓	✓								✓	
Bonaire	✓		✓								✓				
Palau	✓		✓	✓		✓	✓	✓					✓		

References: [15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32]



## Harmful Effects of UV Chemical Filters

Chemical	Hormone Disruption	Reproductive & Developmental Toxicity	Systemic Absorption & Accumulation	Photo-Contact Allergy & Dermatitis	Nervous System Effects
Oxybenzone (Bp-3)	✓	✓	✓		
Octinoxate	✓	✓	✓	✓	
Homosalate	✓		✓		
Avobenzene					
Phenoxyethanol				✓	✓
Methylparabens	✓	✓			
Methylbenzylidene Camphor	✓	✓		✓	
Octocrylene			✓	✓	
Sulisobenzene (Bp-4)	✓	✓	✓		
Cinoxate	✓	✓			
Dioxybenzone (Bp-8)	✓	✓	✓		
Octisalate		✓	✓	✓	
Ensulizole	✓	✓			
Meradimate	✓			✓	
Padimate O				✓	

Suzuki

- “Hydroxylated benzophenones exhibited estrogenic activity in human breast cancer cell line MCF-7.” [54]
- “Benzophenone and some related compounds showed significant inhibitory effects on the androgenic activity of dihydrotestosterone in rat fibroblast cell line NIH3T3,” [54]
- “Benzophenone gave positive responses in uterotrophic assay using ovariectomized rats.” [54]
- “2,4,4V-triOH-BP was positive in the Hershberger assay using castrated rats.” [54]
- “These compounds are reported to be absorbed through human skin, and bioaccumulation may occur in wildlife and humans.” [54]
- “Problems have arisen with photoallergic reactions in patients with suspected clinical photosensitivity.” [54]

## UV Chemical Sunscreens and Chlorine in Swimming Pools is a Dangerous Combination

Chlorine in swimming pools can react with certain chemicals found in sunscreens particularly those that contain organic compounds such as avobenzone, octocrylene, and oxybenzone. These reactions can lead to the degradation of the sunscreen, reducing its effectiveness in protecting the skin from the sun's harmful UV rays [55].

The breakdown of chemical sunscreens in swimming pools can potentially affect children in several ways.

- **Skin Irritation:** When chemical sunscreens break down in chlorine, they can produce new compounds that may irritate the skin. This can be particularly problematic for children, who may have more sensitive skin than adults. Skin irritation can cause discomfort, itching, redness and in some cases, may lead to skin rashes or allergic reactions [56].
- **Respiratory problems:** Some studies have suggested that the use of chemical sunscreens in combination with chlorinated water may increase the risk of respiratory problems in swimmers. This is thought to be due to the production of volatile organic compounds (VOCs) when chemical sunscreens break down in chlorine. These VOCs can irritate the respiratory system and may cause symptoms such as coughing, wheezing, and shortness of breath. For Example, oxybenzone, a common ingredient in chemical sunscreen[56,57].

The Queensland State Government recognises the potential for chemical sunscreens to break down in swimming pools.

## UV Chemical Filter References

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