



## Zinc Oxide

Please read the disclaimer on the last page of this document before using this product.

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### What is it?

Zinc Oxide is a non-organic compound, the oxide of the mineral Zincite. Zinc Oxide is non-nano with a mesh size of 325 nm.

**What is a nano\* particle?** Nano comes from the Greek word “nanos” and means “dwarf.”

*A nano particle will enter the blood stream but a **non-nano** will not; for that reason, non-nano particles are safer. Chemical sunscreens will enter the bloodstream, which is why DNA-altering ingredients like oxybenzone have gotten such bad press recently.*

*\*1 nanometre = one billionth of a metre, which means a nanoparticle is smaller than 100 nanometers; thus a non-nano particle is larger than 100nm.*

### How does it work?

As a barrier, it physically works to provide 28 times the skin's natural protection against harmful UVA and UVB rays. It sits on the skin's surface and is not absorbed by the skin, and blocks both UVA (320–400 nm) and UVB (280–320 nm) rays of ultraviolet light. It has the broadest spectrum of UVA and UVB reflectors that is approved for use as a sunscreen by the FDA.

***Claiming its use as a sunblock necessitates a DIN (Drug Identification Number) in both the U.S. and Canada.***

### Applications:

Zinc is used in ointments, creams, and lotions to prevent sunburn and damage to the skin caused by ultraviolet light. Calamine Lotion is a synonym for Zinc Oxide Lotion, which has long been used on insect bites, sunburn, and chicken pox.

In mineral makeup, it is usually combined with titanium dioxide to give powders better adhesion and for hiding imperfections, as well as to lighten the product. It works well for all skin types. It can be used to help thicken lotions and creams, and is generally used at .02 % to 20%.



# NEW DIRECTIONS

## A R O M A T I C S

***A product that contains 40% zinc requires DIN as it is then considered a medicated ointment by the FDA and Health Canada.***

### **Advantages:**

Zinc oxide is non-irritating, non-allergenic, and non-comedogenic and has a soothing effect that is useful in diaper ointments.

### **Recipe:**

#### **Sun Butter**

<b><i>Metric</i></b>	<b><i>Ingredients</i></b>	<b><i>Imperial</i></b>
45 g	Beeswax	3 T.
60 g	Extra-Virgin Coconut Oil	2 oz.
60 g	Raspberry Seed Oil	2 oz.
60 g	She Butter	2 oz.
30 ml	Zinc Oxide	2 T.
2.5 ml	Vitamin E	½ t.
50 drops	Essential Oil Blend (see below)	½ t.

***The essential oils with good SPF values are Carrot Seed (38), Helichrysum (7), Lavender (6), Lemongrass (6), Myrrh (18-30), and Peppermint (7). You may use one, or three, in a scent combination that you enjoy.***

- In a small pot and over low heat, melt the first four ingredients.
- Take off the heat. When it cools to the point of starting to 'bloom', add the remaining ingredients stirring well.



# NEW DIRECTIONS

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## A R O M A T I C S

- Pour into sterile wide-mouthed jars and cap.
- Allow to sit two hours, or until set, before labelling.

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