



# ORANGE WAX

Naturally Soften the Skin and Delight the Senses

## Natural Emolliency

Everything in nature has a purpose. The peel of an orange protects the fruit from the environment and stops it from withering (or becoming dry). The orange peel is made up of botanical lipids, which are beneficial to our skin as well. Chemists can use these lipids in formulations as an emollient to shield, moisturize and lubricate hair and skin.

Koster Keunen's Orange Wax can be used as an emollient or solid ester in any personal care product.

## A Renewed Life

Supporting the environment continues to be a pillar within Koster Keunen. Our scientists add environmental value by repurposing waste materials for a second life, away from the landfill. Orange wax comes out of the juice market in the form of peel waste. The wax comes from processing the discarded peel through water distillation (no chemical solvents), then a simple and green process at Koster Keunen makes the finished emollient with no waste.



## A Study on Phototoxicity

There are always concerns when using citrus products on the skin due to the phototoxic potential. To ensure the safety of this product, Orange Wax was evaluated for phototoxic potential. Using a third-party testing laboratory, 100% Orange Wax was topically applied to test for any phototoxic result. The conclusion of the study showed no adverse reactions recorded, no dermal response after 72 hours, and zero phototoxic potential.

Orange Wax is proven to be non-phototoxic at 100% and therefore safe to use in topical applications.

## Vegan Alternative to Lanolin

Looking to replace the texture and feel of anhydrous lanolin in your emulsion or anhydrous system? After early laboratory studies, our researchers found comparative results when running side by side formulations swapping lanolin with orange wax.

The results show that comparing at a 1:1 ratio, the overall results were similar in rheology, texture and overall application.

### Key Features & Benefits

- Emollient
- Natural Colorant
- Citrus Scented
- Vegan Product
- Upcycled

## Applications

For use in all Personal Care Products: Leave-on and Wash-Off

## Product Characteristics

INCI: Citrus Aurantium Dulcis (Orange) Peel Wax

Typical Usage Level: 0.5%-10%

Form: Deep Orange Paste

Package: 20KG Pail

