

# Hydrating Tinted Face Cream (SPF)

Formula #8/23-358/837-3

## Features

- Water-in-oil tinted emulsion with SPF
- Mineral sunscreen only, reef safe, non-nano, non-whitening
- 100% natural and vegan formula

Skin Care

Emulsion

Natural / Clean

Sunscreen

## Formula

### Kester Wax K-BWR

Natural, vegan wax blend designed to mimic the properties of natural beeswax. Thickener, film former, vegan beeswax alternative. Usage level 1-20%.

### Kester Wax K-24

Naturally derived wax ester of plant origin. Low melt point semi-solid, melts on body contact, provides cooling sensation. Adds slip, reduces greasy feel, dimethicone alternative. Usage level up to 50%.

Trade Name	INCI Name	%
<b>Phase A</b>		
Jeechem CTG <sup>2</sup>	Caprylic/ Capric Triglyceride	17.0
Jeechem Squalane <sup>2</sup>	Squalane	5.0
Akoline PGPR <sup>3</sup>	Polyglyceryl-3 Polyricinoleate	2.0
<b>Kester Wax K-24<sup>1</sup></b>	<b>Lauryl Laurate</b>	<b>5.0</b>
<b>Kester Wax K-BWR<sup>1</sup></b>	<b>Behenyl Behenate, Polyhydroxystearic Acid, Euphorbia Cerifera (Candelilla) Wax</b>	<b>2.0</b>
Unipure Brown LC 881 <sup>4</sup>	CI 77499 (and) CI 77491 (and) CI 77492	0.6
UV Cut ZnO-68-CG <sup>5</sup>	Zinc Oxide, Caprylic/Capric Triglyceride, Polyhydroxystearic Acid	22.1
<b>Phase B</b>		
Deionized Water	Aqua	41.8
Optiphen <sup>6</sup>	Phenoxyethanol, Caprylyl Glycol	0.5
Glycerin	Glycerin	3.0
Sodium Chloride	Sodium Chloride	0.5
Magnesium Sulfate	Magnesium Sulfate	0.5

## Procedure

- Combine Phase A ingredients and mix well, while heating to 85 °C. Homogenize, if necessary, to ensure ZnO is well dispersed.
- Combine Phase B ingredients and heat to 85 °C.
- Once both Phases are at temperature, add Phase B to Phase A and increase mixing speed.
- Cool to 55 – 60 °C and homogenize at 5000 rpm.
- Continue to cool with propeller mixing to fill temperature.

### Stability Information:

Three months at 45 °C, three months at room temperature, three freeze/thaw cycles.

### Supplier Information:

1. **Koster Keunen, Inc.**; 2. Jeen; 3. AAK; 4. Sensient; 5. Grant Inc.;
6. Brenntag Specialties.

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