Floraesters K-20W®
Jojoba

The non-traditional moisturizing agent with a unique solubility profile

Origin:
- INCI: Hydrolyzed Jojoba Esters (and) Water
- Derived from jojoba oil, a unique botanical source of liquid wax esters
- Jojoba Oil is pressed from the seeds of the jojoba plant, and hydrolyzed to create Floraesters K-20W Jojoba.

Traceability & Sustainability:
- The jojoba plant requires very little water and can be grown on land that is often unsuitable for other types of crops
- Mainly sourced from Chile, Israel, Peru and the United States

Uniqueness:
- Excellent substantivity
- Promotes skin barrier recovery
- Enhances hydration potential
- Improves water resistance
- Reduces appearance of skin redness
- Antipollution properties
- Increases skin firmness & elasticity
- Reduces appearance of large pores
- Rich emolliency; leave-on & rinse-off
- Improves conditioning effect on wet hair

Technical data:
- Soft viscous liquid
- Unique solubility profile
- pH range 9-11
- Dosage 0.1-5%

Compatibility:

<table>
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<th>Alcohol</th>
<th>pH</th>
<th>Sulfate surfactants</th>
<th>Non-sulfate surfactants</th>
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<td>5-12</td>
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## Applications

- Boosts skin hydration together with glycerin
- Improves barrier function
- Increases skin firmness
- Reduces the appearance of pores
- Antipollution benefits
- Typical usage level: 1-5%

- Increases skin firmness and elasticity
- Reduces the appearance of pores
- Typical usage level: 0.1-1%

- Improves water resistance in sunscreen applications
- Typical usage level: 1-5%

- Increases skin barrier function
- Reduces appearance of redness in nonwoven wipe applications
- Typical usage level: 0.1-1%

- Improves conditioning effect on wet hair
- Improves hair dye color retention
- Typical usage level: 1-5%

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### Formulation tips

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<th>pH sensitive systems</th>
<th>Low pH systems</th>
<th>Neutralizing Carbomers</th>
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<td><strong>Blend Floraesters K-20W® Jojoba thoroughly with glycols or glycerin at a 3:1 ratio of glycol or glycerin to Floraesters K-20W® Jojoba. Add solubilizer to the predispersion prior to introducing to the water phase if a clear solution is desired. Blend must be uniform and free of gel bodies before adding to remaining system.</strong></td>
<td>Add Floraesters K-20W® Jojoba after the emulsion has been created at 50-60°C, but prior to making pH adjustments. For polymeric systems, add Floraesters K-20W® Jojoba after the emulsion has been created, but before neutralization of the polymer. Floraesters K-20W® Jojoba will partially neutralize the polymer when used at low levels and can completely neutralize the polymer when used at higher levels.</td>
<td>Add the predispersion of the Floraesters K-20W® Jojoba at 50-60°C, after the emulsion has been created, but prior to adjusting the pH.</td>
<td>Gel Systems: Slowly add the predispersed Floraesters K-20W® Jojoba to the hydrated carbomer phase while mixing. If clarity is required, add a solubilizer to the predispersion.</td>
<td>Emulsion Systems: Add Floraesters K-20W® Jojoba neat wherever TEA would typically be added.</td>
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</tbody>
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### Contact us at: beauty@cargill.com

1. All the components of the raw material are readily biodegradable according to OECD 301 B.
2. The responsibility of a vegan claim lies with the cosmetic manufacturer. Please consult your own legal or regulatory experts to ensure suitability of the product with your preferred standard.
3. Cargill has not tested Floraesters® K-20W Jojoba in final OTC drug formulations. Compliance with FDA regulations is the responsibility of the customer.

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