

PERSONAL CARE

INGREDIENTS • FORMULATION • MANUFACTURE

FLORAESTERS K-20W®
JOJOBA

**LITTLE
BOOK
OF SKIN
PROTECTION**

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COMPANY PROFILE

Floritech

Floraesters K-20W® Jojoba is a unique, multifunctional ingredient that provides the benefits of enhanced barrier recovery, increased skin hydration, and reduced redness.

In addition to Floraesters K-20W Jojoba, Floritech offers a full line of oil-free jojoba esters, jojoba derivatives, macadamia oil and derivatives, stable high-oleic sunflower seed oil, moringa butter, and specialty particles.

Floritech is committed to creating sustainable, eco-friendly products. As the world's premier supplier of biodegradable, natural exfoliating beads, Floritech offers a variety of biodegradable options for microplastic-free exfoliants that are fully compliant with the Microbead-Free Waters Act.

Floritech isn't going green—Floritech was born green. Floritech started with a small jojoba oil mill in the Southwestern United States. Over the past 40 years Floritech has grown into a modern botanical derivative research and manufacturing centre.

Benefits of Floraesters K-20W Jojoba

- Film-forming • Oil-free claim • Water resistant • Reduces redness
- Enhances barrier repair • Increases skin hydration • Increases residence time on the skin

Applications

- Rinse-off • Oil-free • Creams/lotions • Hand sanitisers • Face washes
- Face (sheet) masks • Nonwoven wipes • Sunscreens • Sunless tanners
- Shampoos/conditioners • Toners/astringents



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Water-Free Cleansing Balm

Rinse away make-up and impurities while protecting the skin's natural lipid balance with this light-weight, hydrating cleansing balm.

Phase	Product	INCI	%
A	Floraesters® 15 ¹	Jjoba Esters	25.46
	Floramac 10 ¹	Ethyl Macadamiate	30.04
	Floraesters 30 ¹	Jjoba Esters	6.38
	Floraesters 60 ¹	Jjoba Esters	12.38
	Floraesters 70 ¹	Jjoba Esters	4.50
	Nomcort HK-G ²	Glyceryl Behenate/Eicosadioate	5.00
	Cera Bellina #106P ³	Polyglycerol-3 Beeswax	2.70
	Carnauba Wax SP 63 ⁴	Copernicia Cerifera (Carnauba) Wax	0.50
	Polyaldo® 10-2-P ⁵	Polyglyceryl-10 Dipalmitate	10.00
B	Natrasorb® HFB ⁶	Aluminum Starch Octenylsuccinate (and) Acrylates Copolymer (and)	2.00
		Magnesium Carbonate	
C	Preservative		q.s
	Fragrance		q.s

Procedure: 1. Combine the Floraesters 15 and Floramac 10 of Phase A at room temperature and mix with moderate propeller agitation. Once uniform, begin heating to 80°C. 2. At 80°C, add the remaining ingredients of Phase A in the order listed and mix with moderate propeller agitation. Make sure each ingredient is evenly dispersed before adding the next ingredient. 3. Keep mixing with moderate propeller agitation until the batch becomes clear and uniform, while maintaining a temperature of 80°C. 4. Begin cooling to 60-65°C. Add Phase B at 60-65°C with moderate propeller agitation. Keep mixing until the Natrasorb HFB is completely soaked. 5. Add the ingredients of Phase C at 60-65°C and mix with moderate propeller agitation until the mixture becomes uniform. Pour into containers at 60-65°C.

Suppliers: 1 Floratech 2 Ikeda Corporation 3 Koster Keunen, Inc 4 Strahl & Pitsch Inc 5 Lonza, Inc 6 AkzoNobel Chemicals

Moisturizing Face Mask

This nonwoven face mask demonstrates the synergistic moisturizing effect of Floraesters K-20W, Jjoba with glycerin.

Phase	Product	INCI	%
A		Butylene Glycol	4.00
		Chlorphenesin	0.05
B		Xanthan Gum	0.12
		Hydroxyethylcellulose	0.06
		Sodium Hyaluronate	0.02
C	Floraesters K-20W® Jjoba ¹	Glycerin	1.50
		Hydrolyzed Jjoba Esters (and) Water (Aqua)	1.00
		PEG-40 Hydrogenated Castor Oil	0.40
D	Deionized Water	Water	q.s
E	Preservative	PEG-4 Laurate, Iodopropynyl Butylcarbamate	0.04
			q.s

Procedure: 1. In the main vessel, mix the ingredients of Phase A at 50°C until completely dissolved. Maintain the main vessel at 50°C. 2. Add the ingredients of Phase B to Phase A. 3. In a separate vessel, heat the ingredients of Phase C with mixing to 50°C. Add Phase C to Phase AB. 4. Add Phase D to Phase ABC with mixing. 5. Add the ingredients of Phase E to Phase ABCD and mix until homogeneous. 6. Apply product to nonwoven face mask.

Suppliers: 1 Floratech

FORMULATIONS

Premium Shave Cream

This shave cream is a chassis for many possible grooming formulations. It is ideal for moisturizing and reducing irritation from shaving.

Phase	Product	INCI	%
A	Deionized Water	Water	q.s
	Celquat® SC-230M ¹	Polyquaternium-10	0.30
	Veegum® HV ²	Magnesium Aluminum Silicate	0.40
	Versene® 220 Crystals	Tetrasodium EDTA	0.20
	Chelating Agent ³		
	1,3-BG ⁴	Butylene Glycol	2.00
B	Glycerine 99.7% USP Kosher ⁵	Glycerin	2.00
	Floraesters K-100® Jojoba ⁶	Hydrolyzed Jojoba Esters (and) Jojoba Esters (and) Water (Aqua)	1.50
	Triple Pressed Stearic Acid ⁷	Stearic Acid	12.50
	Floraesters 30 ⁸	Jojoba Esters	3.00
C	HallStar® PGMS Pure ⁹	Propylene Glycol Stearate	3.50
	Ritasynt IP ⁹	Glycol Stearate (and) Stearamide AMP	1.00
	Tealan 99% ⁹	Triethanolamine	q.s
	Activaloe® Aloe Vera Gel QM 200X Flakes (0.5% Solution) ¹⁰	Aloe Barbadosensis Leaf Juice (and) Water	0.50
	Preservative		q.s
	Fragrance		q.s

Procedure: 1. Combine Phase A deionized water and Celquat SC-230M at RT with mod. prop. agitation. Heat to 50°C, add Veegum HV with mod. prop. agitation until fully hydrated. 2. Shift to homomixing, add Versene 220 Crystals Chelating Agent, heat to 80°C. Add remaining Phase A ingredients with mod. homomixer agitation. 3. Combine all Phase B ingredients in separate vessel. Melt, mix at 80°C. 4. Add Phase B to Phase A with mod. homomixer agitation at 80°C until smooth. 5. Shift mixture to mod. prop. agitation and cool. Add Tealan 99% of Phase C with mod. prop. agitation at 55-60°C. 6. Cool to 40-45°C, add remaining Phase C ingredients. 7. Cool to 30°C before filling containers.

Suppliers: 1 AkzoNobel Chemicals 2 Vanderbilt Minerals, LLC 3 The Dow Chemical Co. 4 Nexeo Solutions 5 Acme-Hardesty Co 6 Floratech 7 Essential Ingredients 8 The HallStar Company 9 Rita Corporation 10 Aloecorp

Anti-Age Cream with Floraesters

This substantive, skin-conditioning cream shows a reduction in the appearance of fine lines.

Phase	Product	INCI	%
A	Deionized Water	Water	63.40
	Carbopol® Ultrez 10 Polymer ¹	Carbomer	0.25
	Glycerine 99.7% USP Kosher ²	Glycerin	3.50
	Preservative		q.s
B	Brij® S10 ³	Steareth-10	1.50
	Crodafos GES ³	Cetearyl Alcohol (and) Dicyetyl Phosphate (and) Ceteth-10 Phosphate	3.50
	Xiameter® PMX-200 Silicone Fluid 10cs ⁴	Dimethicone	2.00
	Floraesters 20 ⁵	Jojoba Esters	1.50
	Floraesters 30 ⁵	Jojoba Esters	4.50
C	Span 60 ³	Sorbitan Stearate	0.40
	Preservative		q.s
D	Deionized Water	Water	q.s
	Floraesters K-20W® Jojoba ⁵	Hydrolyzed Jojoba Esters (and) Water (Aqua)	4.00
E	Deionized Water	Water	5.00
	Florasolvs® PEG-150	Jojoba Oil PEG-150 Esters	1.00
	Hydrogenated Jojoba ⁴		

Procedure: 1. Place Carbopol Ultrez 10 Polymer into deionized water at room temperature. Allow Carbopol Ultrez 10 Polymer to completely hydrate. Heat solution to 70°C with mod. prop. agitation. 2. Disperse preservative in Glycerine 99.7% USP Kosher, heat mixture to 70°C. Add to Phase A with mod. prop. agitation. 3. Mix components of Phase B and heat to 70°C. With rapid prop. agitation, add Phase B to Phase A to form an emulsion. 4. Add Phase C to Phase AB with rapid prop. agitation. Mix to a smooth cream. 5. Disperse Floraesters K-20W Jojoba in deionized water of Phase D, add to Phase ABC with rapid prop. agitation. 6. Dissolve Florasolvs PEG-150 Hydrogenated Jojoba in deionized water of Phase E at 70°C. Add Phase E to Phase ABCD with mod. prop. agitation. Cool mixture to RT and put into tubes or jars.

Suppliers: 1 The Lubrizol Corporation 2 Acme-Hardesty Co 3 Croda, Inc 4 Dow Corning Corporation 5 Floratech 6 The HallStar Company



Strengthen

Hydrate

Protect

Floraesters®

- Enhance Skin Barrier Recovery
- Reduce Redness
- Increase Hydration

For detailed claim substantiation
scan the QR code.



FLORATECH

www.floratech.com