

**PERSONAL CARE**

INGREDIENTS • FORMULATION • MANUFACTURE



**LITTLE  
BOOK  
OF NOVEL  
TEXTURES**

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## Floritech

Floraesters K-20W® Jojoba not only delivers a unique texture to your formulation but provides the additional benefits of enhanced barrier repair, 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, stabilised 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 exfoliation products 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 we have grown into a modern botanical derivative research and manufacturing centre.

### **Benefits of Floraesters K-20W Jojoba**

- Film-forming • Oil-free claim • Water resistant • Reduce redness
- Enhance barrier repair • Increase skin hydration • Increase 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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# FORMULATIONS

## PEG-FREE CLEAR HYDRATING TONER

*THIS CRYSTAL CLEAR, ALCOHOL AND PEG FREE TONER REVITALIZES AND BALANCES THE SKIN*

Phase	Product	INCI	%
<b>A</b>	Deionized Water	Water	qs
	Versene® Na2 Crystals	Disodium EDTA	0.10
<b>B</b>	Glycerine 99.7% USP Kosher	Glycerin	0.30
	1,3-BG	Butylene Glycol	2.00
	FLORAESTERS K-20W JOJOBA	Hydrolyzed Jojoba Esters (and) Water (Aqua)	0.50
	Fragrance		qs
<b>C</b>	Plantaren® 810UP	Caprylyl/Capryl Glucoside	3.00
	Preservative		qs
<b>C</b>	Witch Hazel Distillate Preserved	Hamamelis Virginiana (Witch Hazel) Water	3.50
	With Phenoxyethanol		
	Trehalose 100	Trehalose	0.10
<b>D</b>	Sodium Hyaluronate Powder (1% Sol.)	Sodium Hyaluronate (and) Water.	0.10
	Purac® Hipure 90 (15% Sol.) <sup>9</sup>	Lactic Acid (and) Water	qs

**Procedure:** At room temperature, add the Versene Na2 Crystals to the deionized water of phase A with moderate propeller agitation and mix until completely dissolved. Weigh the Floraesters K-20W Jojoba in a separate container. Add the other ingredients of phase B to the Floraesters K-20W Jojoba, in the order listed. Begin mixing at room temperature with low to moderate propeller agitation. Make sure the Floraesters K-20W Jojoba is completely dissolved. Add phase B to phase A with moderate to rapid propeller agitation. Add phase C to phase AB, one ingredient at a time in the order listed, at room temperature with moderate to rapid propeller agitation. Make sure each ingredient is uniformly mixed in the solution before the next ingredient is added. Add phase D with moderate to rapid propeller agitation to achieve pH 5.5.

**Suppliers:** 1 The Dow Chemical Co 2 Acme-Hardesty Co 3 Nexeo Solutions 4 Floratech 5 BASF Corporation 6 American Distilling Inc 7 Hayashibara Co Ltd 8 Tri-K Industries Inc 9 Corbion

## SILICONE-FREE, ULTRA-CONDITONING SHAMPOO WITH FLORAESTERS K-20W JOJOBA

*THIS SHAMPOO IS OIL AND SILICONE FREE. FLORAESTERS K-20W JOJOBA REDUCES WET COMB FORCE AND LEAVES HAIR SOFT AND MANAGEABLE*

Phase	Product	INCI	%
<b>A</b>	Deionized Water	Water	qs
	Versene® Na2 Crystals <sup>1</sup>	Disodium EDTA	0.10
	Carbopol® Aqua SF-1 Polymer <sup>2</sup>	Acrylates Copolymer	5.50
<b>B</b>	Glucamate® CCO <sup>2</sup>	Methyl Glucose Caprate/Caprylate Oleate (and) Propanediol	2.00
	Chemcinate® DSLS-K Surfactant <sup>2</sup>	Disodium Laureth Sulfosuccinate	12.00
	Plantaren® 2000 N UP <sup>3</sup>	Decyl Glucoside	8.00
	Perlastan® L-30 <sup>4</sup>	Sodium Lauroyl Sarcosinate	8.00
	Pureact I-78C <sup>5</sup>	Sodium Cocoyl Isethionate	2.00
<b>C</b>	Rita EGDS <sup>6</sup>	Glycol Distearate	1.50
	Deionized Water	Water	5.00
<b>C</b>	Zemea® Propanediol <sup>7</sup>	Propanediol	0.50
	FLORAESTERS K-20W JOJOBA <sup>8</sup>	Hydrolyzed Jojoba Esters (and) Water (Aqua)	2.50
<b>D</b>	Chembetaine® C Surfactant <sup>2</sup>	Cocamidopropyl Betaine	8.00
<b>E</b>	AquaCat® CG518 <sup>9</sup>	Guar Hydroxypropyltrimonium	0.70
	ChlorideAMP-Ultra® PC 2000, Neutralizing Amine <sup>10</sup>	Aminomethyl Propanol	qs
<b>F</b>	Fragrance		qs
	Preservative		qs

**Procedure:** At room temperature, add the Versene Na2 Crystals to the deionized water of phase A with moderate propeller agitation and mix until completely dissolved. Add the Carbopol Aqua SF-1 Polymer and mix until uniform. Start heating to 70°C-75°C. Add each ingredient of phase B to phase A at 70°C-75°C in the order listed with moderate propeller agitation and mix until uniform. Reduce heat to 60°C-65°C. In a separate vessel, mix the Floraesters K-20W Jojoba and the Zemea Propanediol of phase C until the Floraesters K-20W Jojoba is well dispersed. Add the deionized water of phase C and continue mixing until uniform. Add phase C to phase AB at 60°C-65°C with moderate propeller agitation and mix until uniform. Add phase D to phase ABC with moderate propeller agitation and begin cooling. At 50°C-55°C, add phase E to phase ABCD with moderate to low propeller agitation and continue cooling. At 45°C-50°C add phase F to phase ABCDE. Continue cooling the mixture to room temperature.

**Suppliers:** 1 The Dow Chemical Co 2 The Lubrizol Corporation 3 BASF Corporation 4 Schill & Seilacher 5 Innospec Performance Chemicals 6 Rita Corporation 7 DuPont Co 8 Floratech 9 Ashland Inc 10 Angus Chemical Co

# FORMULATIONS

## ISERUM WITH L22

*THIS SERUM'S OIL PHASE MAXIMIZES THE BENEFICIAL PROPERTIES OF L22 AND THE SKIN HYDRATION TECHNOLOGY OF FLORAESTERS K-20W JOJOBA AND GLYCERIN*

Phase	Product	INCI	%
<b>A</b>	Deionized Water	Water	qs
	Versene® Na2 Crystals <sup>1</sup>	Disodium EDTA	0.10
	Veegum® HV <sup>2</sup>	Magnesium Aluminum Silicate	1.50
	Keltrol® CG-SFT <sup>3</sup>	Xanthan Gum	0.50
	Glycerine 99.7% USP Kosher <sup>4</sup>	Glycerin	2.00
	FLORAESTERS K-20W JOJOBA <sup>5</sup>	Hydrolyzed Jojoba Esters (and) Water (Aqua)	1.50
<b>B</b>	L22 <sup>5</sup>	Jojoba Oil/Macadamia Seed Oil Esters (and) Squalene (and) Phytosteryl Macadamiate (and) Phytosterols (and) Tocopherol	
	Tego® Care LTP <sup>6</sup>	Sorbitan Laurate (and) Polyglyceryl-4 Laurate (and) Dilauryl Citrate	18.00
		Glyceryl Stearate	2.00
	Lexemul® 515 <sup>7</sup>		0.50
<b>C</b>	Preservative		qs
	Sodium Hyaluronate Powder (1% Sol.) <sup>8</sup>	Sodium Hyaluronate (and) Water	0.40
	Adipoless <sup>9</sup>	Butylene Glycol (and) Chenopodium Quinoa Seed Extract	1.50

**Procedure:** Add the Versene Na2 Crystals and the Keltrol CG-SFT into the deionized water of phase A with moderate propeller agitation at room temperature. Heat to 55°C-60°C and add the Veegum HV. Mix with moderate propeller agitation to completely hydrate the Keltrol CG-SFT and the Veegum HV. Continue heating to 70°C, then shift to homomixing to activate the Veegum HV. In a separate vessel, combine the Floraesters K-20W Jojoba and the Glycerine 99.7% USP Kosher. Add to the mixed ingredients of phase A. In the separate vessel, mix ingredients of phase B at 70°C. Add phase B into phase A with rapid propeller agitation to make an emulsion. Start cooling and add phase C at 35°C-40°C.

**Suppliers:** 1 The Dow Chemical Co 2 Vanderbilt Minerals LLC 3 CP Kelco 4 Acme-Hardesty Co 5 Floratech 6 Evonik Industries AG 7 Inolex Chemical 8 Tri-K Industries Inc 9 Seppic

## GENTLE FACE SCRUB WITH BIODEGRADABLE ECOBEADS

*THIS FACIAL SCRUB FEATURING LOW-COST, BIODEGRADABLE ECOBEADS GENTLY EXFOLIATES, LEAVING THE SKIN FEELING SMOOTH AND REFRESHED*

Phase	Product	INCI	%
<b>A</b>	Deionized Water	Water	qs
	Versene® Na2 Crystals <sup>1</sup>	Disodium EDTA	0.05
	1,3-BG <sup>2</sup>	Butylene Glycol	2.00
	Sulfochem® EA-2 Surfactant <sup>3</sup>	Ammonium Laureth Sulfate	14.50
	Chembetaine® C Surfactant <sup>4</sup>	Cocamidopropyl Betaine	13.00
	Glucamate® DOE-120 <sup>4</sup>	PEG-120 Methyl Glucose Dioleate	2.00
<b>B</b>	Hallstar TAB-2V <sup>5</sup>	Distearyl Phthalic Acid Amide	4.50
	Lanette® 16 <sup>5</sup>	Cetyl Alcohol	4.00
	Vegarol® 1898 <sup>3</sup>	Stearyl Alcohol	4.00
<b>C</b>	Sodium Hydroxide, ACS Grade (15% Sol.) <sup>7</sup>	Sodium Hydroxide (and) Water	qs
<b>D</b>	Citric Acid, USP (30% Sol.) <sup>8</sup>	Citric Acid (and) Water	qs
<b>E</b>	Preservative		qs
<b>F</b>	ECOBEADS JADE <sup>1</sup>	Stearyl Stearate (and) Euphorbia Cerifera (Candelilla) Wax (and) Jojoba Esters	6.00

**Procedure:** Add the Versene Na2 Crystals to the deionized water with moderate propeller agitation and mix until completely dissolved. While heating to 75°C-80°C, add the remaining ingredients of phase A in the order listed with moderate propeller agitation. In a separate vessel, mix all ingredients of phase B. While heating to 75°C-80°C, mix with moderate propeller agitation until uniform. Add phase B to phase A with rapid propeller agitation at 75°C-80°C. Add phase C to phase AB with rapid propeller agitation at 75°C-80°C to achieve pH 6.5-7.5. Cool phase ABC to 45°C-50°C. Add phase D to phase ABC with moderate propeller agitation at 45°C-50°C to achieve pH 4.8-5.0. Add phase E to phase ABCD at 40°C-45°C and cool to room temperature. Add phase F when the batch has cooled to room temperature.

**Suppliers:** 1 The Dow Chemical Co 2 Nexeo Solutions 3 Essential Ingredients 4 The Lubrizol Corporation 5 The HallStar Company 6 BASF Corporation 7 WVR International LLC 8 Archer Daniels Midland Company 9 Floratech

# Floraesters K-20W<sup>®</sup> Jojoba

Hydrate

Strengthen

Protect

## FLORAESTERS

- ◆ Reduce Redness
- ◆ Enhance Skin Barrier Recovery
- ◆ Water Resistant
- ◆ Increase Hair Dye Color Retention

*For detailed claim substantiation  
scan or click the QR code*

