

**PERSONAL CARE**

INGREDIENTS • FORMULATION • MANUFACTURE

**LITTLE  
BOOK  
OF SKIN  
PROTECTION**

22

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# COMPANY PROFILE

## Floratech

L22® is Floratech's patented formula of botanically-sourced lipids developed specifically to deliver the skin-lipid profile of a healthy 22-year-old.

L22 is composed of a variety of lipid types which are carefully combined in the same ratio as those found on healthy young skin.

L22 is an excellent platform upon which to build innovative and effective skin care products.

### **Benefits of L22**

- Improves skin elasticity • Improves firmness • Improves skin barrier recovery
- Improves and maintains long-term skin hydration • Delivers the skin lipid profile of a healthy 22-year-old.

### **Applications**

- L22 may be the sole component, or a major component, of a product's lipid phase in various applications.



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# FORMULATIONS

## iSerum with L22

This serum's oil phase was designed to maximize L22's benefits while incorporating long-term skin hydration from Floraesters K-20W Jojoba with glycerin.

Phase	Product	INCI	%
<b>A</b>	Deionized Water	Water	q.s
	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	18.00
	Tego® Care LTP <sup>6</sup>	Sorbitan Laurate (and) Polyglyceryl-4 Laurate (and) Dilauryl Citrate	2.00
	Lexemul® 515 <sup>7</sup>	Glyceryl Stearate	0.50
<b>C</b>	Preservative		q.s.
	Sodium Hyaluronate Powder (1% Solution) <sup>8</sup>	Sodium Hyaluronate (and) Water	0.40
	Adipolees <sup>9</sup>	Butylene Glycol (and) Chenopodium Quinoa Seed Extract	1.50

**Procedure:** 1. Add Versene Na2 Crystals and Keltrol CG-SFT to Phase A deionized water with mod. prop. agitation at RT. 2. Heat to 55-60°C, add Veegum HV. Mix with mod. prop. agitation to hydrate Keltrol CG-SFT and Veegum HV. 3. Continue heating to 70°C, then homomix to activate Veegum HV. 4. In separate vessel, add Floraesters K-20W Jojoba and Glycerine 99.7% USP Kosher. Add to mixed ingredients of Phase A. 5. In the separate vessel, mix ingredients of Phase B at 70°C. 6. Add Phase B into Phase A with rapid prop. agitation to make emulsion. 7. Cool and add Phase C at 35-40°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

## Clear, Silicone-Free Under Eye Rejuvenator

This stick formulation provides hydration which aids in the appearance of healthy, radiant skin.

Phase	Product	INCI	%
<b>A</b>	Floramac® 10 <sup>1</sup>	Ethyl Macadamiate	67.30
	AJK-OD2046 <sup>2</sup>	Octyl Dodecanol (and) Dibutyl Lauroyl Glutamide (and) Dibutyl Ethylhexanoyl Glutamide	20.00
<b>B</b>	Floramac 10 <sup>1</sup>	Ethyl Macadamiate	q.s.
	Floraesters K-100® Jojoba <sup>1</sup>	Hydrolyzed Jojoba Esters (and) Jojoba Esters (and) Water (Aqua)	1.00
	1,3-BG <sup>3</sup>	Butylene Glycol	1.50
	Glycerine 99.7% USP Kosher <sup>4</sup>	Glycerin	0.30
	Ceramide II CQ <sup>5</sup>	Ceramide NG	0.10
	Covi-Ox® T 70 C <sup>6</sup>	Tocopherol	0.05
	L22 <sup>1</sup>	Jojoba Oil/Macadamia Seed Oil Esters (and) Squalene (and) Phytosteryl Macadamiate (and) Phytosterols (and) Tocopherol	1.50
<b>C</b>	Preservative		q.s

**Procedure:** 1. Mix the ingredients of Phase A at 105-110°C with moderate propeller agitation. 2. In a separate vessel, mix the Floraesters K-100 Jojoba, 1,3-BG, and Glycerine 99.7% USP Kosher of Phase B at RT. 3. Add the Floramac 10 of Phase B to the mixture and begin heating to 80-85°C. Keep mixing until gel forms. Add the remainder of Phase B and continue mixing until uniform, while maintaining a temperature of 80-85°C. 4. Begin cooling Phase A to 80-85°C. 5. Add Phase B to Phase A at 80-85°C. 6. Cool Phase AB to 75-80°C, then add Phase C with moderate propeller agitation. 7. Pour into container at 75-80°C.

**Suppliers:** 1 Floratech 2 Kokyu Alcohol Kogyo Co., LTD 3 Nexeo Solutions 4 Acme-Hardesty Co 5 Soliance-Givaudan 6 BASF

# FORMULATIONS

## L22 Night Repair Face Cream

L22 Night Repair Face Cream is a rich and substantial formulation which applies evenly and smoothly and produces occlusive properties.

Phase	Product	INCI	%
<b>A</b>	Deionized Water	Water	q.s
	Versene® Na2 Crystals <sup>1</sup>	Disodium EDTA	0.10
	Keltrol® CG <sup>2</sup>	Xanthan Gum	0.18
	1,3-BG <sup>3</sup>	Butylene Glycol	4.00
	Glycerin 99.7% USP Kosher <sup>4</sup>	Glycerin	2.00
	Floraesters K-100® Jojoba <sup>5</sup>	Hydrolyzed Jojoba Esters (and) Jojoba Esters (and) Water (Aqua)	0.50
<b>B</b>	L22 <sup>5</sup>	Jojoba Oil/Macadamia Seed Oil Esters (and) Squalene (and) Phytosteryl Macadamiate (and) Phytosterols (and) Tocopherol	8.50
	Floralipids® Moringa Butter <sup>5</sup>	Moringa Oil/Hydrogenated Moringa Oil Esters	3.50
	Floraesters 20 <sup>5</sup>	Jojoba Esters	1.18
	Floraesters 60 <sup>5</sup>	Jojoba Esters	0.20
	Vegetable Squalene <sup>6</sup>	Squalene	0.67
	Lexemul® 515 <sup>7</sup>	Glyceryl Stearate	0.50
	Element14® PDMS 200 <sup>8</sup>	Dimethicone	0.80
	Ceramide 2 <sup>9</sup>	Ceramide 2	0.10
	Tego® Care 450 <sup>10</sup>	Polyglyceryl-3 Methylglucose Distearate	3.00
<b>C</b>	Deionized Water	Water	30.00
	Natrosol® Plus 330 CS <sup>11</sup>	Cetyl Hydroxyethyl Cellulose	0.50
<b>D</b>	Sepigel® 305 <sup>12</sup>	Polyacrylamide (and) C13-14 Isoparaffin (and) Laureth-7	0.80
<b>E</b>	Ajidew® N-50 <sup>13</sup>	Sodium PCA	0.50
	Urea, ACS <sup>14</sup>	Urea	0.30
	Sodium Hyaluronate Powder (1% Solution) <sup>15</sup>	Sodium Hyaluronate (and) Water	0.50
	Preservative		q.s
<b>F</b>	Citric Acid, USP (30% Solution) <sup>16</sup>	Citric Acid (and) Water	q.s

**Procedure:** 1. Mix Versene Na2 Crystals into Phase A deionized water with mod. prop. agitation. Add Keltrol CG, heat to 75-80°C. When Keltrol CG is fully hydrated, mix remaining Phase A ingredients in separate vessel, add Phase A mixture. 2. In separate vessel, mix Phase B ingredients at 75- 80°C. 3. Add Phase B to Phase A with rapid prop. agitation at 75-80°C. 4. Cool Phase AB under mod. prop. agitation. 5. In separate vessel, mix Phase C ingredients at 40°C, make clear gel. 6. Add Phase C and D to Phase AB at 60-65°C. Cool batch. 7. Add Phase E to Phase ABCD at 35-40°C. 8. Add Phase F to desired pH.

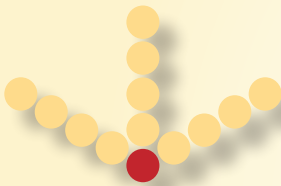
**Suppliers:** 1 The Dow Chemical Co. 2 CP Kelco 3 Nexeo Solutions 4 Acme-Hardesty Co 5 Floratech 6 Ekiz Yag ve Sabun Sanayii A.S. 7 Inolex Chemical Co. 8 Momentive Performance Material 9 Sederma, Inc. 10 Evonik Industries AG 11 Ashland, Inc. 12 Seppic 13 Ajinomoto Co. Inc. 14 Alfa Aesar 15 Tri-K Industries Inc. 16 Archer Daniels Midland Co.



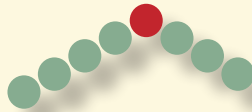
L22 delivers the botanical equivalent of a healthy 22-year-old's skin lipids



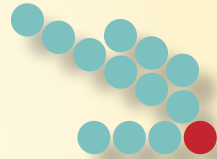
## Skin lipid components...



Triglycerides



Wax Esters



Sterol Esters



Sterols



Squalene

...balanced as they were at age 22

**L22** Is So Revolutionary, It's Patented

For more details, scan the QR code or visit: [lipids22.com](http://lipids22.com)

