

ZINC OXIDE PRE-SUN LOTION

with L22[®], Floramac[®] 10, Floraesters K-20W[®] Jojoba, Floramac Macadamia Oil Refined, and Floralipids[®] Moringa Oil Refined



This versatile lotion with mineral sunscreen actives provides even coverage and superior protection without drying the skin. **Floramac 10** evenly disperses the zinc oxide particles for maximum coverage while **Floraesters K-20W Jojoba** helps form a water-resistant barrier for lasting protection. This expert blend of Cargill Beauty botanical ingredients also gives the added benefits of increased skin hydration, enhanced barrier function, and increased sunscreen retention.

Phase	Trade Name	INCI	Supplier	%WT
A	Deionized Water	Water	-----	q.s.
	Dissolvine [®] GL-47-S	Tetrasodium Glutamate Diacetate	Nouryon	0.10
	Glycerin	Glycerin	Cargill Beauty	1.25
	Satiaxane [®] VPC 930	Xanthan Gum	Cargill Beauty	0.30
	SunSpheres [®] Powder	Styrene/Acrylates Copolymer	The Dow Chemical Co.	1.50
B	UV Cut ZnO-50-W	Zinc Oxide (and) Water (and) Glycerin (and) Sodium Polyacrylate (and) Phenoxyethanol (and) Xanthan Gum (and) Chlorphenesin	Grant Industries	40.00
C	Floramac 10	Ethyl Macadamiate	Cargill Beauty	8.00
	Floramac Macadamia Oil Refined	Macadamia Integrifolia Seed Oil	Cargill Beauty	1.00
	Floralipids Moringa Oil Refined	Moringa Oleifera Seed Oil	Cargill Beauty	1.00
	L22	Jojoba Oil/Macadamia Seed Oil Esters (and) Squalene (and) Phytosteryl Macadamiate (and) Phytosterols (and) Tocopherol	Cargill Beauty	1.00
	Pelemol [®] IN-2	Isononyl Isononanoate	Phoenix Chemical, Inc.	4.00
	D-Alpha Tocopheryl Acetate	Tocopheryl Acetate	Cargill Beauty	0.20
	SYNETH [®] S7 K RSPO MB Pastille	Polyglyceryl-3 Stearate	Lonza, Inc.	2.90
	Admul [®] SSL 1078 K	Sodium Stearoyl Lactylate	Kerry Group plc.	0.40
	Hallstar [®] GMS SE	Glyceryl Stearate SE	The HallStar Company	0.85
	Lanette [®] O	Cetearyl Alcohol	BASF Corporation	0.85
D	Glycerin	Glycerin	Cargill Beauty	1.25
	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Cargill Beauty	1.00
E	Preservative ¹	-----	-----	q.s.
	Citric Acid, USP (30% Solution)	Citric Acid (and) Water	Archer Daniels Midland Co.	q.s.

¹ Preservative: euxyl[®] PE 9010 [INCI: Phenoxyethanol (and) Ethylhexylglycerin] supplied by Schülke Inc.

PATENTS AND REGULATIONS The information presented herein is intended to illustrate the possible technical applications of our products. However, since the use of this information and our products is beyond our control, any recommendations or suggestions are made without guarantee of warranty in each country and particularly in the absence of patent rights. In addition, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the finished product is to be consumed. It is the responsibility of the user to comply with the patents and the regulations in force. Cargill has not tested Emulsun, L22, Floramac 10, Floraesters K-20W Jojoba, Floramac Macadamia Oil Refined, or Floralipids Moringa Oil Refined in final OTC drug formulations. Compliance with FDA regulations is the responsibility of the customer.

Formula Number: S020, Revision Date: January 2023

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PROCESS

1. Mix the Dissolvine GL-47-S into the deionized water of Phase A using moderate propeller agitation. Premix the Satiaxane VPC 930 with the Glycerin until smooth, then add into the main vessel and heat to 75-80°C. Once fully hydrated, add the remaining ingredient of Phase A.
2. Heat the UV Cut ZnO-50-W of Phase B to 75-80°C.
3. Add Phase B to Phase A with moderate propeller agitation at 75-80°C.
4. In a separate vessel, combine all ingredients of Phase C. Heat to 75-80°C with moderate propeller agitation until uniform.
5. Add Phase C to Phase AB with rapid homomixing agitation at 75-80°C.
6. When the mixture becomes uniform, shift to moderate propeller agitation and cool to 55-60°C.
7. In a separate vessel, mix all ingredients of Phase D at room temperature until uniform. Add Phase D to Phase ABC at 55-60°C with moderate propeller agitation.
8. In the order listed, add Phase E to Phase ABCD at 50-55°C with moderate propeller agitation. Cool to 40-45°C.
9. Stop mixing at 40-45°C.

CHARACTERISTICS

- pH: 8 - 9
- Viscosity: 67 - 170kcP

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