

Prototype
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AJINOMOTO®

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Natural Image Sunscreen

ASC 27-27-2

A natural based sunscreen that contains UV filters effective against UV-A and UV-B radiation. This product is produced without heat to minimize the energy use. Eldew PS-203 and Amisoft HS-11P are the primary emulsifiers while Eldew SL-205 and Amihope LL add a unique soft smooth feel. Ajidew ZN-100 is added to help mitigate the appearance of UV induced wrinkles.

	<i>Trade Name</i>	<i>Supplier</i>	<i>INCI Name</i>	<i>% w/w</i>	<i>Function (in Formula / on Skin)</i>
A.	Vegetable Oil		Vegetable Oil	10.0	Emollient/carrier
	Butyl Methoxydibenzoylmethane		Butyl Methoxydibenzoylmethane	3.0	UV filter
	Octocrylene		Octocrylene	10.0	UV Filter
	Ethylhexyl Methoxycinnamate		Ethylhexyl Methoxycinnamate	7.5	UV Filter
	Benzophenone-3		Benzophenone-3	3.0	UV Filter
	ELDEW SL-205	Ajinomoto Co., Inc	Isopropyl Lauroyl Glutamate	10.0	Emollient/carrier
	ELDEW PS-203	Ajinomoto Co., Inc.	Phytosterol/ Octyldodecyl Lauroyl Glutamate	3.4	Emollient/emulsifier
	AMIHOPE LL	Ajinomoto Co., Inc.	Lauroyl Lysine	5.0	Emollient
	Tocopherol		Tocopherol	0.5	Anti-oxidant
B.	Deionized Water		Aqua	43.0	Diluent
	Vanzan NF-2	R.T. Vanderbuilt	Xanthan Gum	0.5	Thickener/stabilizer
C.	AJIDEW ZN-100	Ajinomoto Co., Inc	Zinc PCA	0.5	Conditioner
	AMISOFT HS-11P	Ajinomoto Co., Inc.	Sodium Stearoyl Glutamate	2.6	Emulsifier
	AJIDEW NL-50	Ajinomoto Co., Inc.	Sodium PCA	1.0	Humectant/moisturizer
D.	Preservative			Qs	Preservative

Procedure: Combine phase A ingredients. Charge batch vessel with water (Phase B) and begin propeller mixing. Slowly dust in Vanzan. Allow to mix until fully hydrated. Combine Phase C ingredients and add to Phase B. Add Phase A to Phase to Phase B maintaining mixing. Add Phase D to Batch. Continue mixing insuring good batch turnover until smooth and uniform.

Technical data: pH (as is) 6.3 +/- 0.2; Brookfield Viscosity LV-D, TE @ 0.3 rpm @ 25C, @ 30 seconds, with Heliopath on: 113200 mPa.s
Stable 1 month @ Freeze/thaw 5 cycles, 3C, 25C, 40C, 45C.

Note: the SPF value for this formula has not been measured but based on the amount of UV filters it should be over SPF 25, This formula contains both UV-b and UV-a protection.