



PERFORMANCE INSPIRED INGENUITY

Siltech Corporation
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Sunny Days

O/W Sunscreen

Description:

This O/W sunscreen featuring the excellent emulsification properties of **Silquat® J2-8B** utilizes a combined physical and chemical UV filter package. Cationic **Silquat® J2-8B** not only easily emulsifies the actives, it also acts as a conditioning agent providing a smooth, powdery after-feel on the skin. **Silmer® Q20** is an excellent film former and provides water resistant properties to the formulation.

Ingredients:

Part ID	Description (supplier)	INCI Name	Weight %
A			
	D.I. Water	Aqua	43.450
	Hydroxyethyl Cellulose (Herbarie)	Hydroxyl Ethyl Cellulose	0.700
	Na2EDTA	Disodium EDTA	0.050
B			
	Silquat J2-8B (Siltech)	Distearmonium/Diethonium Chloride CG Dimethicone	4.000
	Silmer Q20 (Siltech)	Trimethylsiloxysilicate	3.000
	Neo Heliopan OS (Symrise)	Ethylhexyl Salicylate	5.000
	CAQP60ZSI(KOBO)	Zinc Oxide (and) Coconut Alkanes (and) Triethoxycaprylylsilane (and) Polyhydroxystearic Acid (and) Coco-Caprylate/Caprates	10.000
	Microcrystalline Wax 180/185 (Koster)	Microcrystalline Wax	1.000
	Neo Heliopan HMS (Symrise)	Homomenthyl Salicylate	15.000
	Neo Heliopan 357(Symrise)	Butyl methoxydibenzoylmethane	3.000
	Neo Heliopan BB (Symrise)	Benzophenone-3	6.000
	Neo heliopan AV (Symrise)	Ethylhexyl Methoxycinnamate	7.500
C			
	Symocide (Symrise)	Phenoxyethanol, Decylene Glycol, 1,2-Hexanediol	1.000
	Citric Acid (40% a.q.)	Citric acid	0.300
		Total	100.000



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Procedure:

- 1) In a clean and sanitized container equipped with a propeller mixer, disperse cellulose in water until fully hydrated. Combine Part A and heat up to 80° C, mix well.
- 2) In another clean and sanitized container, combine Part B and heat up to 80 C, mix well.
- 3) Add Part B into Part A at 80° C slowly. Agitate at 1000 rpm. The incorporation time for a batch of 200 g. is 10 minutes.
- 4) After reaching a steady emulsion for 1 minute duration, cool batch to RT.
- 5) Homogenize batch at 20,000 rpm for 1 minute.
- 6) Add part C while mixing.

Product formulations are included as illustrative examples. Siltech Corporation makes no representation or warranty of any kind with regard to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.