

Kids Macromolecule Sun Lotion SPF50+

Formula composition:

XYDW26062901

No.	Phase	Trade name	INCI	%	Supplier	Note
1	A	Z-Emuslix PI-100F	CETEARYL ALCOHOL, C20-22 ALKYL PHOSPHATE, PEG-100 STEARATE, GLYCERYL STEARATE, ISONONYL ISONONANOATE, SILICA	4.00	GREENZN	Emulsifier
2		TEGOSOFT G20	OCTYLDODECANOL	5.00		Emollient
3		GTB	TRIBEHENIN	0.50		Emollient
4		LANOL 37T	TRIHEPTANOIN	5.00		Emollient
5		DBA	DIBUTYL ADIPATE	5.00		Emollient
6		TEGOSOFT TN	C12-15 ALKYL BENZOATE	5.00		Emollient
7		HYSHELL T150	ETHYLHEXYL TRIAZONE	2.00		Sunscreen Agent
8		HYSHELL HEB	DIETHYLHEXYL BUTAMIDO TRIAZONE	4.00		Sunscreen Agent
9		HYSHELL SORB-S	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	3.00		Sunscreen Agent
10		GDResin AquaFuse PG	ACRYLATES/OCTYLACRYLAMIDE COPOLYMER, POLYURETHANE-1, OCTYLDODECANOL, PENTYLENE GLYCOL	3.00	GREENZN	Film Former

Disclaimer:

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No.	Phase	Trade name	INCI	%	Supplier	Note
11	B	Water	WATER	45.20		Solvent
12		1,3-Butylene glycol	BUTYLENE GLYCOL	7.00		Moisturizing
13		Glycerin	GLYCERIN	2.00		Moisturizing
14		Arocos-RK	RASPBERRY KETONE	0.500		Humectant
15		AroHydro-H	1,2-HEXANEDIOL	0.50		Humectant
16		PC 2000	AMINOMETHYL PROPANOL	0.30		pH Adjuster
17		Carbopol® Aqua SF-1 Polymer	ACRYLATES COPOLYMER, WATER	2.00		Thickener
18	C	HYSHELL SORB-M	METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL, WATER, DECYL GLUCOSIDE, PROPYLENE GLYCOL, XANTHAN GUM	5.00		Sunscreen Agent
19	D	Zenipoly ASP	ACRYLAMIDE/SODIUM ACRYLOYLDIMETHYLTAURATE COPOLYMER, C13-14 ISOPARAFFIN, LAURETH-7, WATER	1.00		Thickener

Process:

1. Add the liquid raw materials of Phase A together and stir until homogeneous. Heat up to 80°C, then add the remaining raw materials and stir to fully dissolve and homogenize.

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2. Stir Phase A until homogeneous, then heat to 80°C. Pour mixed Phase A into Phase B under stirring, and homogenize for 3 minutes.
3. Cool down under stirring to 30-40°C, add Phase C and homogenize until well- dispersed. Subsequently add Phase D, stir and homogenize to achieve uniform dispersion.

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