

High-SPF Sun Lotion SPF 44

High SPF and broad-spectrum protection in this lightweight w/o lotion is achieved by the synergistic combination of PARSOL® TX, PARSOL® HS, PARSOL® SLX, and PARSOL® 1789.

Phase	Ingredients	INCI Name	% w / w	Supplier
A	PARSOL® SLX	Polysilicone-15	3.00	100288
	PARSOL® 1789	Butyl Methoxydibenzoylmethane (Avobenzone; USAN)	5.00	100288
	Dermofeel BGC	Butylene Glycol Dicaprylate/Dicaprate	7.50	100491
	DUB DIS	Diisopropyl Sebacate	10.00	100327
	Dow Corning 345 Fluid	Cyclopentasiloxane & Cyclohexasiloxane	1.50	100404
	Imwitor 370 P	Glyceryl Stearate Citrate	2.40	100398
	Cetiol OE	Dicaprylyl Ether	1.00	100396
	Lanette 18	Stearyl Alcohol	1.00	100396
	Lipocire Na 10 Pastilles	Hydrogenated Coco-Glycerides	1.00	100413
	Phenonip	Phenoxyethanol & Methylparaben & Ethylparaben & Butylparaben & Propylparaben & Isobutylparaben	0.80	100394
	Dehymls PGPH	Polyglyceryl-2 Dipolyhydroxystearate	2.40	100396
	dl-alpha -Tocopheryl Acetate	Tocopheryl Acetate	0.50	100288
	Butylated Hydroxytoluene	BHT	0.05	100230
	Antaron V-216	VP/Hexadecene Copolymer	0.50	100184
	PARSOL® TX	Titanium Dioxide & Dimethicone & Silica	3.00	100288
	B	Pemulen TR-1	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.30
Edeta BD		Disodium EDTA	0.10	100037
Glycerin		Glycerin	6.00	100396
Keltrol		Xanthan Gum	0.50	100400
Water dem.		Aqua	36.45	
C	Triethanolamine (T.E.A.)	Triethanolamine	0.50	100134
D	Water dem.	Aqua	10.00	
	Triethanolamine (T.E.A.)	Triethanolamine	2.50	100134
	PARSOL® HS	Phenylbenzimidazole Sulfonic Acid (Ensulizole; USAN)	4.00	100288

Procedure

- Heat part A to 85°C while stirring.
- When homogeneous, add part B pre-heated to 85°C under agitation, then add part C.
- When everything is homogenous add part D pre-heated to 50°C.
Be sure that the pH of PARSOL® HS solution is 7.0, if traces remain, add a small quantity of neutralizing base until the solution has pH 7.0 obtained.
Homogenize intensively and cool down under agitation to ambient temperature.
It is generally recommended to use vacuum while producing the emulsion.

Technical Data

pH: 7.49 **Viscosity:** 48700 cps (Brookfield, RV 6, 10 rpm)

SPF in vivo: 44.7

SPF in vitro: 37.8

PA: ***

PPD (UVA)/SPF (UVB):

PFA: 20.6 (SD: 5.60)

Critical Wavelength:

Supplier

100288	DSM Nutritional Products	100396	Cognis Deutschland GmbH&Co.KG
100037	BASF Aktiengesellschaft	100398	Sasol Germany GmbH
100134	Fluka Chemie AG	100400	CP Kelco
100184	International Specialty Produc	100404	Dow Corning Corporation
100230	Merck KGaA	100413	GATTEFOSSÉ s.a.
100327	Stearinerie Dubois Fils	100435	Noveon, Inc.
100394	CLARIANT GMBH	100491	Dr Straetmans

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