

SPF 80 Sunscreen

UV-1037



A high SPF sunscreen that give superior sensorial and protection for your skin.

Item	Trade Name	Ingredient (INCI)	(w/w)%
1	Deionized Water	Deionized Water	48.35
2	Pemulen™ EZ-4U ⁴	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.05
3	SunSpheres™ Powder ⁵	Styrene/Acrylates Copolymer	5.00
4	Avobenzone	Avobenzone	3.00
5	Homosalate	Homosalate	15.00
6	Octisalate	Octisalate	5.00
7	Octocrylene	Octocrylene	10.00
8	LexFeel® 7¹	Neopentyl Glycol Diheptanote	3.00
9	Parsol® Shield ²	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	0.30
10	Lexemul® 561¹	Glyceryl Stearate (and) PEG-100 Stearate	1.00
11	SustOleo™ BA¹	Brassica Alcohol	3.00
12	Spheron LP-230 ³	Silica	3.00
13	LexFilm® Sun Natural^{1**}	Capryloyl glycerin/sebacic acid copolymer	2.00
14	Spectrastat™ E^{1*}	Caprylhydroxamic Acid (and) Ethylhexylglycerin (and) Glycerin	1.00
15	Parsol® MAX ²	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	0.30
16	Triethanolamine	Triethanolamine	Q.S.
Total			100.00

LexFeel® 7

Dry and velvety ester used in sunscreens for solubilizing organic UV absorbers. Non-greasy and fast spreading, reduces tackiness in formulas with heavier emollients.

LexFilm® Sun Natural

Natural, pourable, liquid film former with superior aesthetics and water resistant properties.

¹INOLEX ²DSM ³Presperse ⁴Lubrizol ⁵Dow Chemical

PROCEDURE:

1. Disperse Item 3 in hot DI water at high shear, and then disperse Item 2.
2. Mix Items 4-13, heat to 80 °C while mixing until clear.
3. Add Oil Phase to Main Batch with homogenizing until it's uniform.
4. At 65 °C, add Items 14 and 15 into the batch and mix uniformly.
5. Stop mixing 45 - 50 °C.
6. Adjust pH to 5.0 - 6.0 with Item 16.

STABILITY:

45°C (12 weeks), 50°C (12 weeks), F/T (3 cycles)

PHYSICAL PROPERTIES:

pH @ 25°C = 5.5 – 6.00

Viscosity @ 25°C (Brookfield RVT; Spindle T-C @ 0.5 rpm) = 70,000 – 80,000 cps

Date: 05/18

Ref: 617-194A

Patents:

*US Patent No 8993641 B2 & Patent Pending & EU 2224973 B1 **US Patent No 7,317,068

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