

## O/W Soft Sunscreen cream

S-4009-04

## DESCRIPTION

This O/W sunscreen cream creates a soft application and non greasy finish. It can provide a high SPF (SPF 50+, in-vitro) and good water resistance.

Phase	Ingredient	Supplier	%w/w
A	Deionized Water	Local	37.80
	Disodium EDTA	Nouryon	0.05
B	Glycerin (Glycerin USP 99.5 PCT)	Palmedia	4.00
	Butylene Glycol (1,3 BG)	Oxea	2.00
	Hectorite (and) Xanthan Gum ( <b>BENTONE HYDROCLAY™ 700</b> )	<b>Elementis</b>	1.50
C	Ethylhexyl Methoxycinnamate (Eusolex® 2292)	Merck	9.50
	Ethylhexyl Salicylate (Eusolex® OS)	Merck	4.50
	Octocrylene (Eusolex® OCR)	Merck	1.00
	Isoamyl p-Methoxycinnamate (Neo Heliopan® E1000)	Symrise	2.00
	Isononyl Isononanoate (Salacos 99)	Nisshin Oillio	5.00
	Coco-Caprylate/caprate (Saboderm CVC)	SABO	2.00
	Isocetyl Stearate (Ceraphyl 494 ester)	Ashland	1.00
	Lauryl/Isooctyl/Octylododecyl/Dipropylene Glycol Citrate Copolymer ( <b>Naturaluxe™ MFF</b> )	<b>Elementis</b>	2.00
	Silica (SOLESPHERE™ H -121)	AGC	2.00
	C12-15 Alkyl Benzoate (Cetiol® AB)	BASF	4.00
D	Diethylamino Hydroxybenzoyl Hexyl Benzoate (Uvinul® A Plus)	BASF	4.00
	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (Tinosorb® S)	BASF	1.00
	Ethylhexyl Triazine (Uvinul® T 150)	BASF	1.00
	Sodium Stearoyl Glutamate (Eumulgin® SG)	BASF	0.50
	Arachidyl Alcohol (and) Behenyl Alcohol (and) Arachidyl Glucoside (MONTANOV™ 202)	Seppic	3.50
E	Deionized Water	Local	3.00
	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum (Tinosorb® M)	BASF	6.00
F	Pentylene Glycol (effisin™ pg)	Ashland	2.00
	Hydroxyacetophenone (effisin™ had)	Ashland	0.50
	Ethylhexylglycerin (sensiva™ sc 50 multifunctional)	Ashland	0.15
G	Citric acid (20% Water Solution)	SinoPharm	Q.s.

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### PROCEDURE

1. Combine Phase A, mix until uniformly.
2. Combine Phase B and mix uniformly. Add Phase B to Phase A, stir under high speed for 15mins.
3. Heat Phase A/B to 75-80°C.
4. Combine Phase C and mix until uniformly, homogenization for 7mins.
5. Heat Phase C to 75-80°C, add phase D to Phase C with stirring until all the powders melted and uniformly.
6. Add Phase C/D to Phase A/B, homogenization for 10mins.
7. Combine Phase E, mix until uniformly.
8. Combine Phase F. Heat to 50°C under stirring until uniform. Cool with stirring to room temperature.
9. Cool A/B/C/D with stirring to room temperature, add Phase E and F below 50°C, mix until uniformly.
10. Adjust pH value within a range of 6.0-6.3 with Phase G if necessarily.

### SPECIFICATIONS

Viscosity: RVDV-II. Spindle 5. 6rpm 38,000-43,000 cps

Appearance: Off white cream

pH: 6.0-6.3

### ADVANTAGES

**BENTONE HYDROCLAY™ 700** acts as rheological modifier in water phase, helps to stabilize the system.

**Naturaluxe™ MFF** helps on water resistance as a film former.

*NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.*

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