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KCE REFERENCE: C-283

AFTER SUN

DESCRIPTION

- Moisturising lotion with fast absorption
- UV protection (expected SPF 4.0)
- Skin Repair after sunburn

COMPOSITION

	%
EXCEPARL [®] LM-LC	3.0
KAOPAN [®] TW S120	1.5
LEVENOL [®] H&B	1.0
Perfume MENORCA SY154333 ⁽¹⁾	0.7
Pollen Extract (and) Glycine Soja (Soybean) Oil ⁽²⁾	5.0
Ethylhexyl Methoxycinnamate ⁽³⁾	3.0
Propylene Glycol Stearate SE ⁽⁴⁾	3.0
Isopropyl Myristate ⁽⁵⁾	1.0
Caprylyl Glycol, Phenoxyethanol ⁽⁶⁾	0.8
Carbomer ⁽⁷⁾	0.5
Tocopheryl Acetate, Helianthus Annus Seed Oil ⁽⁸⁾	0.3
NaOH 10%	q.s.
Deionized water	Up to 100%

(1) Kao Fragrance

(2) Filagrinol[®] N-P supplied by Vevy

(3) Parsol[®] MCX supplied by DSM

(4) Tegin[®] P supplied by Evonik

(5) Waglinol[®] 6014 supplied by Lasem

(6) Saliguard[®] PG supplied by Biesterfeld

(7) Carbopol[®] Ultrez 20 supplied by Lubrizol

(8) Dermofeel[®] E74 A non GMO supplied by Dr. Streatmans

TECHNICAL CHARACTERISTICS

		Kao Method
APPEARANCE (20°C) :	White Emulsion	KCSA-258
VISCOSITY BROOKFIELD (20°C,cP) :	180000 approx.	KCSA-227
pH (100%) :	5.0 - 5.5	KCSA-014
STABILITY :	Correct	(1 month 40°C/RT/5°C/cycles)



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RECOMMENDED OPERATIVE METHOD

- Solubilize carbomer in deionized water (phase A)
- Prepare phase B solubilizing oils (EXCEPARL® LM-LC, LEVENOL H&B, Isopropyl Myristate) with UV filter (Ethylhexyl Methoxycinnamate) and moderate stirring.
- Heat phase B at 60°C, emulsifiers addition (Propylene glycol stearate SE y KAOPAN TW-120) until total homogeneity.
- Add phase A over phase B at 60°C, uniform stirring.
- Slowly cool of emulsion until 30°C.
- Add other additives (Filagrinol N-P, Tocopherol y Phenoxyethanol) with uniform and moderate stirring.
- Adjust pH with NaOH 10%.

COMPONENTS

EXCEPARL® LM-LC (Lauryl Lactate, ≈ 100% a.m.): non-ionic character. Liquid ingredient derived from renewable sources. Thickener for cleansing compositions. It can be added at room temperature. Recommended dosage for rinse-off formulations, between 0.3 and 3%. For skin care application, it performs as skin emollient with high/medium spreadability and low oiliness. Recommended use percentage for skin care is 10% max. Excellent solubilizing properties for UV-filters.

KAOPAN® TW S120 (Polysorbate-60, ≈ 100% a.m.): non-ionic character. Emulsifier and solubilizer. HLB ≈ 14.9.

LEVENOL® H&B (Glycereth-2 Cocoate, ≈ 100% a.m.): non-ionic character. Extra-mild surfactant, with emulsifying properties. Skin emollient and moisturizing agent. Foam booster and thickening agent. Ecological product. It doesn't need any risk or safety warnings on its label. In hair rinse application increases the conditioning effect of the cationic component, giving smoothness. % of use in Hair Rinse = between 0.1 - 2%

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