

Formulation

Lightweight and hydrating, this gel-lotion provides broad-spectrum UVA/UVB protection. It is quick absorbing for a non-greasy after-feel.

PHASE A

PHASE TOTAL: 100.0000%

PHASE INSTRUCTIONS

No phase instructions provided.

TRADE NAME	INCI NAME	FUNCTION	W/W %
Pemulen™ TR-2	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	-	0.8000
LexFeel® D4	Neopentyl Glycol Diheptanoate (and) Isododecane	This volatile sensory enhancer is a silicone-free emollient that mimics the properties of cyclomethicone.	3.0000
DI Water	Deionized Water	-	61.4000
LexFeel® 7	Neopentyl Glycol Diheptanoate	™ 7Light, dry, and spreadable sensory emollient. This ester is excellent for solubilizing UV filters and dispersing pigments. It imparts a non-greasy after-feel and reduces the tackiness of heavier emollients.	3.0000
PARSOL® 340	Octocrylene	-	2.8000
OXYBENZONE	Benzophenone-3	Stabilizers	6.0000
PARSOL® EHS	Ethylhexyl Salicylate	-	5.0000
PARSOL® HMS	Homosalate	-	10.0000
PARSOL® 1789	Butyl Methoxydibenzoyl Methane	-	3.0000
Glycerin	Glycerin	-	2.0000
LexFilm™ Sun	Polyester-7 (and) Neopentyl Glycol Diheptanoate	Provides both excellent waterproofing as well as UV filter solubilization.	2.0000
Phenostat™	Caprylhydroxamic Acid (and) Phenoxyethanol (and) Methylpropanediol	Preservation system for broad spectrum coverage even at neutral pH.	1.0000

Specifications**VISCOSITY**

45,000 - 60,000 cps

PH TARGET

4.00 - 5.00

PROCEDURE

Premix Items 1 and 2, then add to Item 3 (main batch) to build a homogeneous gel, and then heat to 80 °C.

Combine Items 4 - 11 and heat to 80°C while mixing until clear.

Add Item 4 - 11 to main batch with vigorous mixing until homogeneous gel cream forms (if not too thick, homogenize the batch).

Add Item 12 while cooling to room temperature.

Adjust pH to 4.50 to 5.00.