SPF 30 Spray

A lightweight, fast-absorbing SPF 30 spray that provides broad-spectrum protection while hydrating and refreshing the skin with a natural, barely-there finish.

ALCHEMY ingredients

Ingredients

Phase	Trade Name	INCI name	% w/w	Supplier
A	**Spraymulse®**	**Sucrose Stearate, Xanthan Gum, Sodium Stearoyl Glutamate, Gellan Gum**	1.25	**Alchemy Ingredients by Elementis**
A	Glycerine	Glycerin	3.00	
A	**Hydratagel G**	**Glycerin, Aqua, Sodium Hyaluronate**	2.00	**Alchemy Ingredients by Elementis**
A	Water	Aqua	45.50	
A	Phenylbenzimidazole Sulfonic Acid (25% Sol)	Aqua, Phenylbenzimidazole Sulfonic Acid	13.00	
B	Butyl Methoxydibenzoylmethane	Butyl Methoxydibenzoylmethane	3.00	
B	Ethylhexyl Salicylate	Ethylhexyl Salicylate	3.00	
B	Bis-ethylhexyloxyphenol Methoxyphenyl Triazine	Bis-ethylhexyloxyphenol Methoxyphenyl Triazine	3.00	
B	CCT	Caprylic/Capric Triglyceride	15.00	
B	Eldew SL-205	Isopropyl Lauroyl Sarcosinate	10.00	Ajinomoto
C	Tocopherol	Tocopherol	0.25	
C	PE9010	Phenoxyethanol, Ethylhexylglycerin	1.00	
D	25% NaOH Sol.	Sodium Hydroxide, Aqua	Q.S. 7.0-7.5	

Formulation Code: 114-20-07-00/1

Method

- Combine phase A in a beaker, heat to 75°C and hold temperature for 10 minutes.
- Combine phase B in a separate beaker and heat until all solids are melted.
- Homogenise phase A at 5000RPM until fully combined.
- Add phase B to phase A under homogenisation and homogenise for several minutes until fully combined.
- Cool under high speed stirring (650RPM).
- Add phase C and stir in by hand until combined.

Characteristics

Stability

Stable for 3 weeks at 50°C and 3 months at 40°C

Appearance

Pale Yellow Fluid Emulsion

PH

7.0-7.5

Viscosity

N/A

✓ PEG Free
✓ Natural Origin
✓ COSMOS Approved
✓ Vegan
✓ Palm Oil Free

Ingredient Benefits

Spraymulse®

- Effectively stabilises up to 50% oil at low use level
- Light, non sticky and non greasy
- Very matte with a smooth finish
- Low viscosity, fine texture emulsion
- Super-white

Hydratagel G

- A ready-to-use Hyaluronic Acid
- Suitable for use on its own or as an ingredient
- Can increase viscosity and change the rheology of creams and lotions
- Adds moisturising properties to gels, creams and lotions
- Provides a non-sticky, light barrier feel on the skin

Adapt the Formula

- Change organic sunfilters for different SPF rating.
- Add actives for further skin benefits.
- Change oils for different benefits.
- Add fragrance.

The formulation above is intended for information purposes only based on the best of our knowledge. It is the responsibility of the customer to undertake the appropriate testing to determine the suitability of the product for their intended use.