

SPF 50 Spray

A lightweight, fast absorbing spray that delivers broad-spectrum sun protection while hydrating and refreshing the skin, leaving 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	Glycerin	Glycerine	3.00	
A	Hydratagel G	Glycerine, Aqua, Sodium Hyaluronate	2.00	Alchemy Ingredients by Elementis
A	Water	Aqua	44.00	
A	PARSOL® HS (25% Solution)	Aqua, Phenylbenzimidazole Sulfonic Acid, Sodium hydroxide	13.00	Adina
B	PARSOL® EHT	Ethylhexyl Triazone	3.50	Adina
B	PARSOL® DHHB	Diethylamino Hydroxybenzoyl Hexyl Benzoate	8.50	Adina
B	PARSOL® Shield	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.50	Adina
B	CCT	Caprylic/Capric Triglycerides	15.00	
B	Eldew SI-205	Isopropyl Lauroyl Sarcosinate	5.00	
C	Tocopherol	Tocopherol	0.25	
C	PE9010	Phenoxyethanol, Ethylhexylglycerin	1.00	

Formulation Code: 138-20-07-00/1

Method

- Combine phase A in a beaker and heat to 75°C. Hold this temperature for at least 10 minutes.
- Combine phase B in a separate beaker and heat until all solids are melted.
- Homogenise phase A 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.
- Use NaOH to adjust pH to between 7-7.5.

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

1,500 - 2,500

✓ PEG Free

✓ 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

- Ready to use Hyaluronic Acid
- Adds moisturising properties to gels, creams and lotions
- Provides a luxurious feel to creams
- Provides a non-sticky and light barrier feel on the skin

Adapt the Formula

- Change organic sun filters for different SPF rating.
- Change oils for different benefits.
- Add actives for additional skin 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.