

# Formulary Data

## Broad Spectrum Sunscreen SPF 25

**DESCRIPTION:** This formula utilizes **PERFORMA V™ 6112 polymer** to achieve a broad spectrum, high SPF, very water resistant sunscreen with low active levels and pleasant aesthetics.

	INGREDIENTS	WEIGHT %
Phase 1	Homosalate <sup>①</sup>	1.50
	Butyl Methoxydibenzoylmethane <sup>②</sup>	2.00
	Oxybenzone <sup>③</sup>	2.00
	C12-15 Alkyl Benzoate <sup>④</sup>	10.00
	C12-15 Alkyl Benzoate (and) Dipropylene Glycol Dibenzoate (and) PPG-15 Stearyl Ether Benzoate <sup>⑤</sup>	10.00
	Cetearyl Alcohol <sup>⑥</sup>	0.50
	Glyceryl Stearate <sup>⑦</sup>	2.50
	Potassium Cetyl Phosphate <sup>⑧</sup>	1.50
	<b>PERFORMA V 6112 polymer</b>	4.00
	(C26-52 Olefin/Undecylenic Acid Copolymer) *	
Phase 2	Water	q.s.
	Glycerin	4.00
	Carbomer (2% Soln) <sup>⑨</sup>	10.00
	Disodium EDTA	0.10
Phase 3	Triethanolamine (99%)	1.35
	Phenoxyethanol, Methylparaben, Ethylparaben, Butylparaben, Propylparaben, Isobutylparaben <sup>⑩</sup>	1.00

**PROCEDURE:** Heat Phase 1 and Phase 2 to 80-85C. Using high shear mixer, add phase 2 slowly to phase 1. Continue mixing until homogeneous add TEA while mixing and at temperature. Cool with mixing to room temperature at 45C add preservative. Mix until smooth at room temperature.

- ① Eusolex® HMS EMD Chemicals
  - ② Escalol® 517 ISP
  - ③ Uvinul® M40 BASF
  - ④ Finsolv® TN Innospec Active Chemicals
  - ⑤ Finsolv® TPP Innospec Active Chemicals
  - ⑥ Crodacol™ CS50 Croda
  - ⑦ Protachem GMS-450 Protameen Chemical
  - ⑧ Amphisol® K DSM
  - ⑨ Carbopol® Ultrez 10 Polymer Lubrizol
  - ⑩ Phenonip® Clariant
- \*Proposed INCI Name

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