

SPF 15 VERY WATER RESISTANT SPRAY

This SPF 15 very water resistant spray is designed to be a “low viscosity” quick breaking very water resistant sunscreen emulsion. The Zenigloss SE & Zenigloss S function in a number of ways. In addition to being the emollient system they also help with emulsion stability in the bottle and in increasing film thickness on the skin (thereby increasing sunscreen efficiency).

	PHASE	INGREDIENT	FUNCTION	% BY WEIGHT	BATCH SIZE 500.00
1.	A	WATER	DILUENT	77.45	387.25
2.	A	DISODIUM EDTA	CHELATING AGENT	0.10	0.50
3.	A	PEMULEN TR2	EMULSION STABILIZER/ RHEOLOGY MODIFIER	0.25	1.25
4.	A	MP DIOL	SOLVENT	2.50	12.50
5.	B	ZENIGLOSS SE	EMULSIFIER	1.50	7.50
6.	B	ESCALOL 587	SUNSCREEN AGENT; UV ABSORBER	5.00	25.00
7.	B	UVINUL M40	SUNSCREEN AGENT; UV ABSORBER	2.00	10.00
8.	B	ZENIGLOSS S	POLYMERIC CONDITIONER/ SHINE	2.50	12.50
9.	B	UVINUL MC80	SUNSCREEN AGENT; UV ABSORBER	7.50	37.50
10.	C	TRIETHANOLAMINE 99%	PH ADJUSTER	0.20	1.00
11.	D	GERMABEN II	PRESERVATIVE	1.00	5.00
		Total		100.00	500.00

LAB #CLI: 1661101

Manufacturing instructions:

PHASE A COMBINE WATER AND DISODIUM EDTA AND MIX UNTIL EDTA DISSOLVES SLOWLY SPRINKLE PEMULEN TR2 INTO WATER WITH MODERATE AGITATION AND MIX UNTIL PEMULEN HYDRATES
 ADD REMAINING PHASE A INGREDIENTS AND MIX WHILE HEATING TO 75C.

PHASE B COMBINE PHASE B INGREDIENTS AND HEAT WITH MIXING TO 75C.
 ADD PHASE B TO PHASE A WITH MIXING.
 HOMOGENIZE FOR 1 MINUTE AT APPROX 3500-4000 RPM

PHASE C USE PHASE C TO ADJUST THE PH OF BATCH TO 5.5-6.0
 COOL BATCH TO 30C

PHASE D ADD PHASE D TO BATCH WITH MIXING.
 COOL BATCH TO 25C. HOMOGENIZE FOR 1 MIN AT 4000 RPM. PACKAGE

OTHER INFORMATION: pH: 5.65 VISCOSITY: 2,200 CPS #3 @ 20 RPM

Formula courtesy of



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