



650 Jernee Mill Road Sayreville, New Jersey Phone (732) 254-1901 Fax (732) 254-4423

Category: Sun Care

AG1-030: Dermothix 100 Sunscreen Lotion SPF 30

<i>Ingredient</i>	<i>INCI</i>	<i>Supplier</i>	<i>W/W%</i>
Phase A (aqueous)			
Water	Water	--	59.0
1,3 Butylene Glycol	Butylene Glycol	Alzo	2
Phenoxyetol	Phenoxyethanol	Clariant	0.5
Dermol CG	Caprylyl glycol	Alzo	0.5
Dermothix 100	Disteareth-100 IPDI	Alzo	3
Phase B (oils)			
Eusolex 9020	Avobenzene	Merck	3
Parsol 340	Octocrylene	DSM	5
Eusolex OS	Octisalate	Merck	5
Eusolex HMS	Homosalate	Merck	5
Elefac I-205	Octyldodecyl Neopentanoate	Alzo	5
Dermol DCC	Dicaprylyl Carbonate	Alzo	5
Dermofat 4919	Stearic Acid	Alzo	2
Phase C (elastomer)			
NuLastic Soft D99-8	Isononyl Isononanoate (and) Divinyldimethicone/ Dimethicone Crosspolymer	Alzo	5
Total			100.0

Manufacturing Procedure:

- 1) Combine water, butylene glycol & preservatives into main beaker, heat to 65-70° C.
- 2) Add Dermothix-100 to main beaker, mix until incorporated into water phase.
- 3) In side beaker, combine components of phase B, heat to 70° C and mix until all ingredients are well dispersed & melted.
- 4) Emulsify by add phase B to A under high shear for 10 minutes at 5,000 rpm, then begin cooling.
- 5) Add Phase C (NuLastic elastomer) and mix for 5 minutes or until fully dispersed, then mix the remainder of the batch at 3,500 rpm.

Alzo Product Benefits:

Dermothix 100 – water soluble thickener and gelling agent for aqueous systems; high internal phase o/w emulsifier; broad pH stability 2-12

Elefac I-205 – ester; excellent organic sunscreen solubilizer and TiO₂ & ZnO pigment wetter.

NuLastic Soft D99-8 – 8% active silicone elastomer in ester carrier for soft feel and improved water resistance

All information contained herein is intended primarily to demonstrate the utility of **ALZO** products. Suggestions for uses or applications are only opinions. The user is responsible for determining the suitability of these products for their own particular purpose. We assume no liability in the presentation of this data, nor should this information be constructed as granting license to practice any methods or compositions of matter covered by U.S. or foreign patents.