

ALZO International, Inc.

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Category: Skin Care

NuPlastic Emulsion DR1-67

<i>Ingredient</i>	<i>INCI</i>	<i>Supplier</i>	<i>W/W%</i>
Phase A (Water Phase)			
DI Water	Water	N/A	53.4
Polyderm PE/PA ED	Polyurethane 58	Alzo	10.0
Glycerin	Glycerin		2.0
Tween 60	Polysorbate 60	Croda	1.0
Simulgel EG	Sodium Acrylate / Sodium Acryloyldimethyl Taurate Copolymer & Isohexadecane & Polysorbate 80	Seppic	0.3
Phase B (Oil Phase)			
NuLastic Silk MA ID-8	Isododecane (and) C4-24 Alkyl Dimethicone / Divinyldimethicone Crosspolymer	Alzo	10.0
Dermol DID	Diisopropyl Dimer Dilinoleate	Alzo	8.0
Dermol 99	Isononyl Isononanoate	Alzo	4.0
Cetyl Alcohol	Cetyl Alcohol	Alzo	3.0
Stearyl Alcohol	Stearyl Alcohol	Alzo	4.0
Dermowax GMS	Glyceryl Monostearate	Alzo	4.0
Phase C (Presearvative)			
Dermol CG	Caprylyl Glycol	Alzo	0.5
Phenoxyethanol	Phenoxyethanol		0.5
Total			100

Manufacturing Procedure:

1. Combine aqueous phase (Phase A) ingredients other than Polyderm PE/PA ED into main beaker. Heat 65C-70C. Add Polyderm PE/PA ED.
2. In side beaker add oil phase components (Phase B) and heat until solid components are melted. There will be gels of silicone elastomer present in the mixture.
3. Emulsify by adding phase B to A mixing using overhead mixer and propeller blade.
4. Move to Silverson Homogenizer and homogenize until smooth.
5. Cool to 35-40C and add preservative.

Benefits:

NuPlastic film on skin entraps moisturizing ingredients on skin and imparts an aesthetic of efficacy with a comfortable film on skin.