

## Daily Defense Cream (DD Cream)

### ARL-21-15-3

Trade Name	INCI Name	Company	Percent
A Deionized Water	Water		55.00
A Versene NA	Disodium EDTA	Dow Chemical	0.10
A Keltrol T	Xanthan Gum	Kelco	0.15
A Propylene Glycol	Propylene Glycol		1.00
A Avocado Extract	Water & Glycerin & Persea Gratissima Fruit Extract	Carrubba	0.50
B Parsol 1789	Avobenzone	DSM Nutritional	3.00
B Neo Heliopan HMS	Homosalate	Symrise	5.00
B Dermoblock OS	Octyl Salicylate	Alzo	5.00
B Neo Heliopan 303	Octocylene	Symrise	2.60
B PELEMOL 899	Isononyl Isononanoate, Ethylhexyl Isononanoate	Phoenix Chemical	3.00
B PHOENOXOL BIP-PC	PPG-10 Butandiol	Phoenix Chemical	8.00
B PHOENOXOL T	Cetearyl Alcohol & Steareth-30 & Ceteth-10	Phoenix Chemical	3.50
B Lipocol C	Cetyl Alcohol	Lipo Chemical	1.00
C Deionized Water	Deionized Water		3.00
C Revitalin PF	Glycol Proteins & Glutamic Acid & Valine & Threonine & Water & Phenoxyethanol & Ethylhexyglycerin & Sodium Metabisulfite	DSM Nutritional	3.00
D Deionized Water	Deionized Water		2.00
D Elhibin PF	Glycine Soja Protein & Glycerin & Water & Disodium Cocoamphodiacetate & Sodium Dextran Sulfate & Valine & Glycine & Phenoxyethanol & Sodium Benzoate & Potassium Sorbate	DSM Nutritional	2.00
E Sepigel 305	Polyacrylamide & C13-14 Isoparaffin & Laureth-7	Seppic	2.00
F Euxyl K100	Benzyl Alcohol & Methylchloroisothiazolinone & Methylisothiazolinone	Schulke & Mayr	0.10
			100.00

**Procedure:** Heat water to 70-75C add propylene glycol, extract and disodium EDTA mixing gently until uniform. Slowly add Keltrol and mix until thoroughly swelled. Combine **Phase B** and heat to 70-75C, homogenize Phase B for 3- 4 minutes. With Phases A and B at 75C, add Phase B to Phase A under homogenization for 4-5 minutes. Begin cooling with a side sweep agitation. Cool emulsion to 35C and add pre-mixed Phase C, mix until uniform. Add pre-mixed Phase D and mix until uniform. Add Sepigel 305 and continuing mixing until homogenous. Add Phase F and continue to mix until homogenous. Cool to room temperature and package.

