

Formulary

Sunscreen Lotion		Moisturizing Lotion		Emollient Lipstick	
Water Phase				Ingredients	
55.80%	Deionized Water	53.70%	Deionized Water	31.77%	Castor Oil
0.70%	Sodium Chloride	0.05%	Disodium EDTA	7.00%	Candelilla Wax
0.20%	Benzoic Acid	0.25%	Ultrez (Carbomer)	1.50%	Carnuba Wax
6.00%	Butylene Glycol	6.00%	Butylene Glycol	1.80%	Ceresin (m.p.75°C)
0.20%	Methyl Paraben	0.20%	Methyl Paraben	3.50%	Microcrystalline Wax (m.p.77°C)
		1.00%	Tromethamine	6.00%	Isostearyl Stearoyl Stearate
		3.00%	Deionized Water	6.00%	Butyloctyl Salicylate
		1.00%	Polysorbate-60	1.00%	Hydroxylated Lanolin
Oil Phase				18.50%	Glyceryl Triisostearate
2.00%	Polyglyceryl-2, Isostearate, Cetyl Dimethicone Copolyol, Hexyl Laurate	9.00%	Polydecene	6.00%	EnviroPure 301
		7.00%	EnviroPure 301	0.10%	Propyl Paraben
		10.00%	Hexadecyl Stearate	0.20%	Methyl Paraben
0.50%	Cetyl Dimethicone Copolyol	3.00%	Stearic Acid	0.05%	Ascorbyl Palmitate
2.00%	Isostearyl Neopentanoate	3.00%	Glyceryl Stearate		
7.50%	Octinoxate	0.50%	Dimethicone/100 cs	Color Grind	
3.50%	Oxybenzone	1.00%	Sorbitan Stearate	0.28%	D&C Red #7 Lake
2.00%	Cetyl Dimethicone	0.10%	Propyl Paraben	0.60%	D&C Red #6 Lake
2.00%	White Bees Wax	0.20%	Diazolidinyl Urea	2.00%	Russet Iron Oxide
7.00%	EnviroPure 301	1.00%	Deionized Water	3.70%	Castor Oil
0.10%	Propyl Paraben				
2.00%	Dimethicone/20 cs				
9.00%	Cyclopentasiloxane				
Manufacturing Process					
1.	Combine Oil Phase ingredients through Propyl Paraben into a closed vessel.	1.	Combine water and Sodium EDTA.	1.	Combine Waxes, Oils and Parabens.
		2.	Begin homomixing and sprinkle in Carbomer.	2.	Heat to 85-90°C with stirring until clear.
2.	Heat to 80°C with stirring until clear.	3.	Heat to 70-75°C.	3.	Lower temperature to 75-80°C.
3.	Combine Dimethicone and Cyclopentasiloxane.	4.	Combine and add Methyl Paraben and Butylene Glycol.	4.	Combine Color Grind with stirring.
4.	Add to oil phase with stirring.	5.	Combine Tromethamine and water, stirring in until dissolved.	5.	Mill using a three roll mill to < 10 microns. Add to batch.
5.	Reheat to 80°C, then adjust temperature to 75°C. Keep closed to avoid loss due to evaporation.	6.	Add to Water Phase.	6.	Continue stirring until dispersed.
		7.	Add Polysorbate-60.	7.	Add pearl with stirring.
6.	In a separate vessel, combine water, NaCl, and Benzoic Acid.	8.	In a separate beaker, combine Oil Phase and heat to 75-80°C with stirring.	8.	Deair under vacuum.
7.	Heat to 75°C with stirring until clear.	9.	Add oil to Water Phase while homogenizing.	9.	Add Ascorbyl Palmitate.
8.	Dissolve Methyl Paraben in Butylene Glycol.	10.	Maintain temperature and agitation for 15 minutes.	10.	Adjust temperature to 70-72°C.
9.	Add to water phase.	11.	Cool to 45°C.	11.	Fill into molds.
10.	At 75°C, add Water Phase to Oil Phase while homogenizing.				
11.	Maintain temperature with agitation for 15 minutes.	12.	Dissolve Diazolidinyl Urea in water. Add to batch.		
12.	Cool to 55°C while homogenizing.	13.	Cool to 30°C with paddle mixer agitation.		
13.	Cool to 30°C with sidesweep.				