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## Easy Coverage Waterproof Sunscreen

*Products highlighted: Floraesters® IPJ*

Floraesters IPJ makes this water-in-oil emulsion more luxurious and lubricious feeling on the skin, increasing “spreadability” properties.

Phase	Trade Name	INCI Name	Supplier	%wt./wt.
A.	<b>Floraesters IPJ</b>	<b>Isopropyl Jojobate (and) Jojoba Alcohol (and) Jojoba Esters (and) Tocopherol</b>	<b>Floratech</b>	<b>4.60</b>
	Abil EM-90	Cetyl Dimethicone Copolyol	Goldschmidt	2.00
	Witconol APM	PPG-3 Myristyl Ether	Crompton	0.50
	Castorwax	Hydrogenated Castor Oil	CasChem	0.75
	Microcrystalline Wax SP 18	Microcrystalline Wax	Strahl & Pitsch	1.25
	SF-1202 Silicone Fluid	Cyclomethicone	GE Silicones	4.00
	Abil Wax 9801	Cetyl Dimethicone	Goldschmidt	1.00
	Eusolex T-45D	Isononyl Isonononate (and) Titanium Dioxide (and) Alumina (and) Simethicone (and) Polyglyceryl-6 Ricinoleate	Rona	3.00
B.	Parsol MCX	Ethylhexyl Methoxycinnamate	DSM	4.50
	Uvinul M-40	Benzophenone-3	BASF	1.00
	Wickenol 155	Ethylhexyl Palmitate	Alzo	5.50
C.	Deionized Water	Water		Q.S.
	Propylene Glycol	Propylene Glycol	Ashland	0.40
	Sodium Chloride	Sodium Chloride		0.80
D.	Preservative	-----		Q.S.
			<b>TOTAL:</b>	<b>100.00</b>

### Mixing Procedure:

1. Combine Phase A and heat to 75°C, making sure all waxes melt and mixture is homogeneous. Cool to 55°C.
2. Mix and heat Phase B to 45°C with moderate agitation until all the Uvinul M-40 has dissolved.
3. Add Phase B to Phase A with moderate agitation.
4. Heat water of Phase C to 65°C. Add propylene glycol to heated water with agitation. Then add sodium chloride. Mix 5-10 minutes, allowing sodium chloride to dissolve and mixture to cool to 55°C.
5. Add Phase C slowly and continuously to Phase AB with moderate agitation. Maintain a creamy appearance by increasing agitation as mixture increases viscosity.
6. Once combined, allow to mix for 10-15 minutes and cool to 45°C.
7. Add Phase D with agitation and force cool to 30°C.
8. Once batch has cooled to 30°C, homogenize for approximately 10 minutes.

Note: The information herein is based on our research and the research of others and is believed to be accurate. No guarantee of their accuracy is made and the products discussed are sold without warranty, expressed or implied, and upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Likewise, statements concerning the possible use of these products are not intended as recommendations to use these products in infringement of any patent.

Revision Date: October 2008  
 Formula Number: S003j