

FLORATECH[®] ASIA
 6 FL., No. 360, RUEI GUANG ROAD
 NEIHU, TAIPEI, TAIWAN, ROC
 PHONE: 886 2 8751 6060
 FAX: 886 2 8751 6363

FLORATECH[®] AMERICAS
 291 EAST EL PRADO COURT
 CHANDLER, ARIZONA 85225
 PHONE: 480-545-7000
 FAX: 480-892-3000

FLORATECH[®] EU
 VIA TANARO 15, 20017 RHO
 MILAN, ITALY
 PHONE: 39 02 93 04946
 FAX: 39 02 93 50 8238

see www.floratech.com to find your local Floratech representative

Sunflower Oil Sunscreen

Products highlighted: Florasun[®] 90

Florasun 90 High Oleic Sunflower Oil gives this water resistant sunscreen a strong marketing and technical rationale (natural/ botanical/renewable/no animal testing). In this water-in-oil formulation, the SPF values is achieved utilizing relatively low levels of chemical UVA and UVB absorbers (augmented by ultrafine TiO₂) and the easy-to-use " Abil EM-90" water-in-oil emulsifier.

Phase	Trade Name	INCI Name	Supplier	%wt./wt.
A.	Florasun 90	Helianthus Annuus (Sunflower) Seed Oil (and) Tocopherol	Floratech	4.60
	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 96	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	2.50
	Wickenol 155	Ethylhexyl Palmitate	Alzo	5.50
C.	Deionized Water	Water		Q.S.
	Preservative	-----		Q.S.
	Sodium Chloride	Sodium Chloride		0.80
D.	Fragrance	Fragrance		Q.S.
			TOTAL:	100.00

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 the benzophenone-3 has dissolved.
3. Add Phase B to Phase A with moderate agitation.
4. Heat water of Phase C to 65°C. Add preservative to heated water with agitation. Add sodium chloride. Mix 5-10 minutes, allowing sodium chloride to dissolve. Cool mixture 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 Phases ABCD 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.