



Formulation

Name	SUNSCREEN W/O LOTION WITH TITANIUM DIOXIDE AND ZINC OXIDE (COLD MIXING)	
No.	797	
Description	This water-in-oil lotion uses two sunscreen agents for added protection while still providing excellent after-feel.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	=== Phase 1 === Deionized Water STEPANQUAT® ML	q.s. to 100 2.0
	=== Phase 2 === Dow Corning 345 Fluid (Dow Corning) Cyclomethicone Abil EM-90 (Goldschmidt) Cetyl Dimethicone Copolyol MT-100 (Tri-K) Titanium Dioxide Salcare SC-95 (Ciba) Polyquaternium-37 and Mineral Oil and PPG-1 Trideceth-6	20.0 1.0 8.0 2.0
	=== Phase 3 === Z-Cote HP1 (BASF) Zinc Oxide and Dimethicone NEOBEE® M-5 COSMETIC	2.0 5.0
	=== Phase 4 === Preservative, Dye, Fragrance	q.s.
	Total	100.0
Procedure	Prepare Phase 1. In a separate container prepare Phase 2. Add Phase 1 into Phase 2 with fast agitation. Prepare Phase 3 mixing until homogeneous. Add into main batch. Mix for 20 minutes. Add Phase 4. Homogenize for 3-5 minutes at 3500 rpm (Silverson L4RT).	
Physical Properties	Appearance at 25°C SPF, estimated pH, as is Viscosity at 25°C, cps	Lotion 18 4.0 - 5.0 5500 - 6000
Storage/Stability	6 months at 25°C 1 month at 42°C 1 month at 50°C	Stable Stable Stable
External Comment	This type of product is considered to be an over-the-counter (OTC) drug by the United States Food and Drug Administration (FDA). In order to market such a product, one must consult the appropriate FDA monograph for efficacy and manufacturing requirements and product must be manufactured in a registered FDA facility.	
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For
Additional
Assistance

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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