



Formulation

Name	ANTI-DANDRUFF SHAMPOO	
No.	565	
Description	This shampoo provides cleansing as well as dandruff relief. This formulation includes Di (Hydrogenated) Tallow Phthalic Acid, an emulsifier/suspending agent for the active ingredient, Sulfur Powder. The shampoo is also formulated with a non-diethanolamine amide.	
Formulation	INGREDIENTS:	% by Weight
	Deionized Water	q.s. to 100.0
	STEPANOL® AM-V	51.8
	HALLSTAR® TAB-2 (HallStar) Di (Hydrogenated) Tallow Phthalic Acid	5.0
	NINOL® M-10	2.0
	Sulfur Powder	2.0
	Versene (Dow Chemical) EDTA	0.2
	Dye, Fragrance, Preservative	q.s.
	Sodium Hydroxide	q.s.
	Citric Acid	q.s.
	Ammonium Chloride	q.s.
	Total	100.0
Procedure	Into a suitable vessel equipped with mixing, heating and cooling capabilities, add Deionized Water, EDTA, STEPANOL® AM-V, and NINOL® M-10. Begin to agitate and heat to 75-80°C. Add Di (Hydrogenated) Tallow Phthalic Acid and Sulfur Powder. At 75-80°C, homogenize the batch for 10-15 minutes or pass it through an homogenizer. Begin to cool. At 45°C, add Dye, Fragrance, and Preservative. Adjust pH if necessary with Sodium Hydroxide or Citric Acid. Adjust to desired viscosity with Ammonium Chloride.	
Physical Properties	Appearance	Opaque liquid
	Viscosity at 25°C, cps	2500 - 3500
	pH, as is	5.0 - 6.2
Storage/Stability	3 months at 25°C	Stable
	1 month at 42°C	Stable
	1 month at 50°C	Stable
Instructions for Use	Wet hair, lather, and rinse.	
External Comment	This type of product is considered to be an over-the-counter (O-T-C) 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.	
Registered Trademarks of Stepan Company	STEPANOL® NINOL®	
For	For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or	

Additional
Assistance

011-334-76-505-100 (Europe).

For ordering assistance, call our Account Service Department at 1-800-457-7673.

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