



Formulation

Name	DEA FREE ANTI-DANDRUFF SHAMPOO WITH SELENIUM SULFIDE	
No.	567	
Description	This shampoo provides cleansing as well as dandruff relief. It incorporates Selenium Sulfide as the active and is formulated without DEA amide.	
Formulation	INGREDIENTS:	<u>% by Weight</u>
	Deionized Water	q.s. to 100.0
	STEPANOL® AM-V	51.7
	Di (Hydrogenated) Tallow Phthalic Acid (HALLSTAR® TAB-2)	5.0
	NINOL® M-10	2.0
	Selenium Sulfide	1.0
	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	<p>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 160-165°F. Add Selenium Sulfide. At 145°F, add Di (Hydrogenated) Tallow Phthalic Acid and continue to heat to 160-165°F. Agitate the batch for 30 minutes.** Begin to cool. At 110°F, add Dye, Fragrance, and Preservative. Adjust pH to 5.0 - 6.2 with Sodium Hydroxide or Citric Acid. Adjust to desired viscosity with Ammonium Chloride.</p> <p>** If smaller particle size and a pearly product is desired, homogenize the batch at 110-130°F.</p>	
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	Apply to 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.	
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For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or

For
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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