



Formulation

Name	DEA-FREE ANTI-DANDRUFF SHAMPOO WITH COAL TAR	
No.	568	
Description	This shampoo provides cleansing, as well as dandruff relief. Coal tar is the active ingredient.	
Formulation	INGREDIENTS:	% by Weight
	Deionized Water	q.s. to 100.0
	Versene Acid (Dow Chemical USA) EDTA	0.2
	STEPANOL® AM-V	51.7
	NINOL® M-10	5.0
	Di (Hydrogenated) Tallow Phthalic Acid (HALLSTAR® TAB-2)	2.0
	Coal Tar Mixture	2.0
	Dye, Fragrance, Preservative	q.s.
	Sodium Hydroxide	q.s.
	Citric Acid	q.s.
	Ammonium Chloride	q.s.
	Total	100.0
Procedure	Add Deionized Water, EDTA, STEPANOL® AM-V, and NINOL® M-10 into a suitable vessel equipped with mixing, heating, and cooling capabilities. Begin to agitate and heat to 160–165°F. At 145°F, add Di (Hydrogenated) Tallow Phthalic Acid. Mix until dispersed. Add Coal Tar Mixture. Continue to heat to 160–165°F. Agitate the batch for 30 minutes. Begin to cool to room temperature. At 110°F, add Dye, Fragrance, and Preservative. Adjust the pH to 5.0–6.2 with Citric Acid or Sodium Hydroxide, as needed. 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	Apply to 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 Additional	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.	

Assistance

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Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

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