

Formulation

Name	THE SHOW ANIMAL COLLECTION: SILICONE-FREE CONDITIONER	
No.	1440	
Description	Follow up your shampoo with a conditioner that will soften your animal's hair and make it easier to comb and brush out. This naturally derived conditioner is free of silicones that could weigh down hair or leave a sticky or greasy build-up.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0 Carrier
	Euxyl® K712 (Schülke & Mayr SA) Potassium Sorbate (and)	0.4 Preservative
	Sodium Benzoate	
	=== Phase 2 ===	
	Cetearyl Alcohol	5.0 Viscosity Builder
	STEPANQUAT® Soleil	2.0 Conditioning Agent
	STEPAN-MILD® L3	1.0 Emollient
	Helianthus Anuus (Sunflower) Seed Oil	1.2 Feel Enhancer
	=== Phase 3 ===	
	Tocopheryl Acetate (Vitamin E)	0.2 Antioxidant
	Hydrolyzed Wheat Protein	0.1 Additive
	Wheat Amino Acids	0.1 Additive
	Euxyl® K712 (Schülke & Mayr SA)	0.4 Preservative
	Silky Touch (Mane & Fils SA) Fragrance	0.2 Fragrance
	Dye	q.s. Dye
	=== Phase 4 ===	
	Citric Acid, 50% Solution	q.s. pH Adjuster
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. Add Deionized water and heat water to 65°C (149°F). 2. At 65°C (149°F), add Euxyl® K712 as part of Phase 1. 3. In a separate vessel, melt Cetearyl Alcohol, STEPANQUAT® Soleil, STEPAN-MILD® L3, and Helianthus Anuus (Sunflower) Seed Oil together with mixing at 65°C (149°F). 4. Once combined, add Phase 1 to Phase 2. Use a dispersion mixer to emulsify. 5. Slowly begin to cool down the emulsion to 40°C (104°F). 6. Add Phase 3 ingredients in the order listed above with mixing. 7. Once at room temperature, adjust pH, if necessary, with Citric Acid, 50% Solution. 	
Physical Properties	Appearance, as is	White, opaque, viscous liquid
	pH, as is	3.0 - 4.0
	Viscosity at 25°C (Brookfield LV2 V3), cps	32,000
Storage/Stability	4 weeks at 20°C	Stable
	4 weeks at 45°C	Stable
	4 weeks at 5°C	Stable

Instructions
for Use

Apply to wet hair after rinsing hair of shampoo. Massage and let stand for 1-2 minutes. Rinse hair completely with water.

External
Comment

Marketing Notes: Ingredient List: Water, Cetearyl Alcohol, Dioleylethyl Hydroxyethylmonium Methosulfate, Sunflower Seed Oil Glycerides, Helianthus Anuus (Sunflower) Seed Oil, Lauryl Lactyl Lactate, Hydrolyzed Wheat Proteins, Wheat Amino Acids, Tocopheryl Acetate, Potassium Sorbate, Sodium Benzoate, Fragrance. Please note: Euxyl® K712 needs to be added at two different times so as to maintain the viscosity. If an alternative preservative system is desired use: Benzyl Alcohol & Ethylhexyl Glycerine, or Phenoxyethanol. Natural Origin Content is 99%. The Natural Origin Content refers to the Natural Origin Index (NOI) as outlined in ISO 16128. This calculation is based on biorenewable carbon content for the specific ingredients used in Stepan's laboratories and includes balance formulation water, but excludes enhancers such as fragrance and dye.

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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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