



Formulation

Name	THE PET CARE COLLECTION: 2-IN-1 CONDITIONING PET SHAMPOO		
No.	1417		
Description	Pamper your pet with this luxurious 2-in-1 Conditioning Shampoo. The naturally derived cleansers create a rich lather while conditioning agent STEPANQUAT® Soleil softens and makes coats easier to comb. You may find yourself using it on your own locks!		
Formulation	INGREDIENTS:	<u>% by Weight</u>	<u>Functionality</u>
	=== Phase 1 ===		
	Deionized Water	q.s. to 100	Carrier
	ALPHA-STEP® PC-48	13.00	Cleansing Agent
	AMPHOSOL® LB-HP	10.00	Foam Booster
	=== Phase 2 ===		
	STEPANOL® DCFAS-N	2.00	Cleansing Agent
	ANTIL® 120 Plus MB (Evonik Industries)	1.00	Thickener
	Hallstar® EDGS (Hallstar Company) Glycol Distearate	0.50	Pearlescent Agent
	=== Phase 3 ===		
	STEPANQUAT® Soleil	0.75	Conditioning Agent
	STEPAN-MILD® L3	0.50	Additive
	Microcare® BDB (Thor) Benzyl Alcohol (and) Dehydroacetic Acid (and) Benzoic Acid	0.50	Preservative
	=== Phase 4 ===		
	ABS™ Colloidal Oat G Protein PET (Active Concepts, LLC)	0.10	Additive
	Hydrolyzed Rice Protein	0.10	Additive
	#229796 Cucumber Melon WS	0.50	Fragrance
	=== Phase 5 ===		
	Citric Acid	q.s.	pH Adjuster
	Sodium Hydroxide	q.s.	pH Adjuster
	Total	100.00	
Procedure	<ol style="list-style-type: none"> 1. Charge Deionized Water to the main tank and begin regular mixing. 2. With regular mixing, add ALPHA-STEP® PC-48 and AMPHOSOL® LB-HP to the main tank with regular mixing until batch is uniform. Begin heating batch to 75°C (167°F). 3. While the main tank is heating to 75°C (167°F), add STEPANOL® DCFAS-N and ANTIL® 120 Plus MB to the main tank with regular mixing. Continue heating to 75°C (167°F) with regular mixing. 4. At 75°C (167°F), ensure batch is uniform and all solids are dissolved. 5. Once all solids are dissolved, add in Hallstar® EDGS and continue regular mixing at 75°C (167°F) until all solids are dissolved. Mix at 75°C (167°F) for an additional 15 minutes and begin cooling batch to less than 40°C (104°F). 6. When batch is less than 40°C (104°F), add STEPANQUAT® Soleil, STEPAN-MILD® L3, Microcare® BDB, ABS™ Colloidal Oat G Protein PET, Hydrolyzed Rice Protein and #229796 		

Cucumber Melon WS (fragrance), one-by-one to the main tank with regular mixing.
7. As needed, use Citric Acid and Sodium Hydroxide (as granules or as a diluted solution) to adjust pH down and up respectively.

****Note:** The INCI Name for the following materials:

ANTIL® 120 Plus MB from Evonik Industries is PEG-120 Methyl Glucose Dioleate

ABS™ Colloidal Oat G Protein PET from Active Concepts, LLC is Colloidal Oatmeal

Physical Properties	Appearance, as is	Off-white thick, pearly liquid
	pH, as is	5.0 - 6.0 (Target: 5.5)
	Viscosity at 25°C (LV63 at 12 rpm), cps	2,000 - 5,000 (Target: 3,000)

Storage/Stability	3 months at Room Temperature	Stable
	3 months at 40°C	Stable
	3 months at 5°C	Stable
	Freeze/Thaw, 3 cycles	Pass

Instructions for Use: Apply desired amount of product on pet's, damp coat and lather. Rinse with water and dry as needed.

External Comment

Marketing Notes: Ingredient List - Water, Sodium Methyl 2-Sulfolaurate, Lauramidopropyl Betaine, Sodium CocoSulfate, Disodium 2-Sulfolaurate, PEG-120 Methyl Glucose Dioleate, Dioleoyl ethyl Hydroxyethylmonium Methosulfate, Lauryl Lactyl Lactate, Sunflower Seed Oil Glycerides, Glycol Distearate, Colloidal Oatmeal, Hydrolyzed Rice Protein, Fragrance, Benzyl Alcohol (and) Dehydroacetic Acid (and) Benzoic Acid. Natural Origin Content is 97%. 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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AMPHOSOL®
STEPAN-MILD®
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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).

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