



Name **THE PET CARE COLLECTION: PET DETANGLER AND DEODORIZER**

No. 1413

Description For those pet owners who count down the days until the next trip to the groomer — we understand your anxiety! Get through those last stinky days with an easy-to-use sprayable Pet Detangler and Deodorizer. Just shake, spray and comb into your pet’s coat. This formulation is also great for prepping your dog for a playdate! Follow the same directions to help get rid of tangles and watch your pet get the looks from his or her pet friends!

<u>INGREDIENTS:</u>	<u>% by Weight</u>	<u>Functionality</u>
=== Phase 1 ===		
Deionized Water	q.s. to 100	Carrier
Glycerin	0.30	Humectant
Natrosol™ 250 HHR (Ashland) Hydroxyethylcellulose	0.20	Thickener
=== Phase 2 ===		
Hallstar® GMS SE (Hallstar Company) Glyceryl Stearate SE	0.25	Emulsifier
STEPANQUAT® Soleil	0.25	Conditioning Agent
=== Phase 3 ===		
Deionized Water	60.00	Carrier
=== Phase 4 ===		
ABS™ Colloidal Oat G PET (Active Concepts, LLC)	0.10	Preservative
Hydrolyzed Rice Protein	0.10	Conditioning Agent
Microcare® BDB (Thor) Benzyl alcohol (and) Dehydroacetic Acid (and) Benzoic Acid	1.00	Conditioning Agent
#229796 Cucumber Melon WS (Belle Aire Fragrances)	0.50	Fragrance
=== Phase 5 ===		
Citric Acid	q.s.	pH Adjuster
Sodium Hydroxide	q.s.	pH Adjuster
Total	100.00	

Procedure

1. Charge Deionized Water and Glycerin to the main tank and begin regular mixing.
2. Add Natrosol™ 250 HHR to the main tank with fast mixing until uniformly dispersed. Adjust pH to 8.0 with Sodium Hydroxide (diluted solution or granules) with regular mixing until the batch is clear and uniform. Then adjust the pH to 5.5 with Citric Acid (diluted solution or granules) and begin heating batch to 75°C (167°F) with regular mixing.
3. At 75°C (167°F), add Glyceryl Stearate SE and STEPANQUAT® Soleil, one-by-one with regular mixing, ensuring the batch is uniform and all solids are dissolved before adding the next ingredient. Once incorporated, begin cooling batch to less than 40°C (104°F).
4. While cooling batch to less than 40°C (104°F), add phase 3 (Deionized Water) to the main tank with regular mixing. Note: The lower the temperature of this addition of Deionized Water, the faster the cool down process.
5. Add Microcare® BDB, ABS™ Colloidal Oat G PET, Hydrolyzed Rice Protein and #229796

Cucumber Melon WS (fragrance) to the main tank with regular mixing until batch is uniform.
6. Use Citric Acid and Sodium Hydroxide (as a diluted solution or granules) to adjust the pH of the formulation.

*Note: The INCI name for the following ingredients are as follows:

Microcare® BDB from Thor is Benzyl Alcohol (and) Dehydroacetic Acid (and) Benzoic Acid.
ABS™ Colloidal Oat G PET from Active Concepts, LLC is Colloidal Oatmeal

Physical Properties	Appearance, as is pH, as is Viscosity at 25°C, cps	Translucent to opaque liquid 3.5 - 4.5 (Target: 4.0) 70 - 500
Storage/ Stability	3 months at Room Temperature 3 months at 40°C 3 months at 5°C Freeze/Thaw, 3 cycles	Stable Stable Stable Pass Note: Product will have a thin, white cloudy layer at the top of the jar. Once shaken, the formulation is uniform without precipitate.
Instructions for Use	SHAKE BEFORE USE. Spray onto pet's coat and rub in with hands or brush.	
External Comment	Marketing Notes: Ingredient List: Water, Glycerin, Glyceryl Stearate SE, Hydroxyethylcellulose, Dioleylethyl Hydroxyethylmonium Methosulfate, Sunflower Seed Oil Glycerides, Colloidal Oatmeal, Hydrolyzed Rice Protein, Fragrance, Benzyl Alcohol (and) Dehydroacetic Acid (and) Benzoic Acid. 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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