

Formulation

Name **THE KID-AT-HEART COLLECTION: SHIMMERING BODY LOTION**
 No. 1414
 Description Craving that extra glow in the summer? Or maybe you want to bring some life to your skin during the winter. Either way, this hydrating body lotion uses a trio of Stepan natural emollients to help keep skin smooth and moisturized, even during cold, dry weather. Apply once for a subtle shimmer or apply several times throughout the day to build up your glow!

Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>	<u>Functionality</u>
	=== Phase 1 ===		
	Deionized Water	q.s. to 100	Carrier
	Glycerin	1.00	Humectant
	117114 Xirona® Magic Mauve (EMD Performance Materials Corp.) Silica (and) Titanium Dioxide (and) Tin Oxide	5.00	Colorant
	=== Phase 2 ===		
	Carbomer® 980 polymer (Lubrizol) Carbomer	0.20	Thickener
	=== Phase 3 ===		
	Brij™ C20-SO (Croda, Inc.) Ceteth-20	2.00	Emulsifier
	Brij™ S721 (Croda, Inc.) Steareth-21	1.00	Emulsifier
	NEOBEE® M-5 COSMETIC	1.00	Emollient
	NEOBEE® M-20	2.00	Emollient
	WECOBEE® M	3.00	Emollient
	STEPAN-MILD® GCC	1.00	Emollient
	Cetearyl Alcohol	3.00	Thickener
	Cetyl Alcohol	3.00	Thickener
	=== Phase 4 ===		
	Microcare® BDB (Thor)	0.75	Preservative
	#245337 Apple Pear Fragrance (Belle Aire Fragrances)	0.50	Fragrance
	=== Phase 5 ===		
	Citric Acid	q.s.	pH Adjuster
	Sodium Hydroxide	q.s.	pH Adjuster
	Total	100.000	

Procedure

1. Add Deionized Water, Glycerin and #17114 Xirona® Magic Mauve to the main tank with regular mixing.
2. With fast mixing, add Carbomer® 980 polymer to the main tank. Ensure the batch is uniform and begin heating batch to 75-80°C (167-176°F).
3. In an auxiliary tank, add Brij™ C20-SO, Brij™ S721, NEOBEE® M-5 COSMETIC, WECOBEE® M, STEPAN-MILD® GCC, Cetearyl Alcohol and Cetyl Alcohol with regular mixing and begin heating to 75-80°C (167-176°F).
4. When both the main tank and auxiliary tanks are at 75-80°C (167-176°F), add the contents of the phase 3 from the auxiliary tank to the content of the main tank (phase 1 & 2) with fast mixing.
5. When uniform, homogenize the batch at 5100 rpm for 1 min/kg. Transfer back to propeller

mixing and begin cooling batch to less than 40°C (104°F).
 6. When the batch is less than 40°C, add Microcare® BDB and fragrance to the batch with regular mixing until batch is uniform.
 7. Use Citric Acid and Sodium Hydroxide to adjust batch pH as needed (using diluted solutions or granules).
 *Note: The INCI name for Microcare® BDB from Thor is: Benzyl Alcohol (and) Dehydroacetic Acid (and) Benzoic Acid.

Physical Properties	Appearance, as is	Opaque, white lotion
	pH at 25°C	4.8 - 5.8 (Target: 5.25)
	Viscosity, cps	45,000 - 95,000 (Target: 70,000)
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 hands and apply to body as needed to get a shiny, shimmering finish on the skin.	

External Comment

Marketing Notes: Ingredient List - Water, Cetearyl Alcohol, Cetyl Alcohol, Glyceryl Caprylate/Caprate, Hydrogenated Vegetable Oil, Ceteth-20, Silica, Caprylic/Capric Triglyceride, Glycerin, Steareth-21, Titanium Dioxide, Tin Oxide, 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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 STEPAN-MILD®
 WECOBEE®

For 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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