



Formulation

Name	COLD MIXING HAIR CONDITIONER	
No.	820	
Description	STEPANQUAT® ML provides an excellent wet and dry combability in this formulation.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0
	Structure ZEA (National Starch & Chemical Company) Hydroxypropyl Starch Phosphate	5.0
	STEPANQUAT® ML	2.5
	Lipocol L (Lipo) Lauryl Alcohol	0.5
	Glycerin	
	=== Phase 2 ===	
	Sodium Hydroxide, 50% solution	q.s.
	Citric Acid, 50% solution	q.s.
	Preservative, Dye, Fragrance	q.s.
	Total	100.0
Procedure	Into a vessel equipped with agitator, add water in Phase1. Start mixing. Into the vortex, sprinkle in item #2. Add item #3. When dispersed, add item #4. If not homogeneous, heat to 25-27°C. Mix well. Add item #5 and mix well.	
Physical Properties	pH at 25°C	3.5 - 4.5
	Appearance at 25°C	Opaque lotion
Storage/Stability	6 months at 25°C	Stable
	3 months at 42°C	Stable
	2 months at 50°C	Stable
Instructions for Use	Shampoo hair, apply conditioner and rinse.	
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For Additional Assistance	<p>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).</p> <p>For ordering assistance, call our Account Service Department at 1-800-457-7673.</p> <p>The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents or to violate any applicable laws.</p> <p>STEPAN COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, AND NO WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE, INCLUDING REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, ADEQUACY OR OTHERWISE.</p>	

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