

# Shampoo

Contains REACT-NTI products (highlighted in red)

## Formulary

Ingredients	% Wt.
<b>Phase A</b>	
Deionized water	q.s.
UCare Polymer LR 400 (Amerchol) (polyquaternium-10)	0.40
Versene 220 Crystals (Dow) (tetrasodium EDTA)	0.08
<b>Phase B</b>	
Sulfochem SLS (Chemron) (sodium lauryl sulfate)	10.00
Standapol ES-2 (Chemron) (sodium laureth sulfate)	24.00
Lexaine C (Inolex) (cocamidopropyl betaine)	4.00
Comperlan LD (Cognis) (lauramide DEA)	2.50
<b>EnviroSolve Silver</b>	<b>1.00</b>
<b>EnviroSolve Gold</b>	<b>1.00</b>
<b>Phase C</b>	
Florasolve PEG-150 Hydrogenated Jojoba (PEG-150 jojoba hydrogenated)	4.00
Merquat 550 (Calgon) (polyquaternium-7)	0.50
Preservative	q.s.
Citric acid 20% solution (DSM) (citric acid (and) water) (pH = 5.5)	0.36
Sodium chloride 20% solution (sodium chloride (and) water)	1.50
<b>Phase D</b>	
Fragrance	q.s.
Color (optional)	q.s.
<b>Procedure</b>	
1.	Heat water to 80°C.
2.	Add polyquaternium-10 slowly with rapid propeller agitation.
3.	Stir for 20 minutes.
4.	Add tetrasodium EDTA.
5.	Stir for five minutes.
6.	Add Phase B in order listed to Phase A. Keep the temperature at 75-80°C.
7.	Mix until uniform.
8.	Add Phase C in order listed to Phase A/B and mix until uniform. Cool to 40-45°C.
9.	Add Phase D and mix until uniform. Cool to room temperature.



## REACT-NTI, LLC

6680 North Highway 49, Lino Lakes, MN 55014

Phone: (651) 217-2138 Fax: (651) 784-2902

[www.react-nti.com](http://www.react-nti.com)

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