



# PEG-Free Shampoo with Floraesters K-20W Jojoba

*Product Highlighted: Floraesters K-20W® Jojoba*



This PEG-free shampoo featuring Floraesters® K-20W Jojoba leaves hair feeling silky and rejuvenated while conditioning and adding shine.

Phase	Trade/Common Name	INCI Name	Manufacturer	%wt/wt
A.	Standapol® ES-2	Sodium Laureth Sulfate	BASF Corporation	25.20
	Plantaren® 2000 N UP	Decyl Glucoside	BASF Corporation	15.10
	Lexaine® C	Cocamidopropyl Betaine	Inolex Chemical Co.	10.20
	Sulfochem® AEG Surfactant Blend	Ammonium Lauryl Sulfate (and) ALES (and) CAPB (and) Cocamide DEA (and) Lauramide DEA	The Lubrizol Corporation	4.00
	Glycerin, USP	Glycerin	The Dow Chemical Co.	0.50
B.	<b>Floraesters K-20W Jojoba</b>	<b>Hydrolyzed Jojoba Esters (and) Water (Aqua)</b>	<b>Florotech</b>	<b>5.30</b>
C.	Deionized Water	Water	-----	q.s.
	Quatrisoft® Polymer LM-200	Polyquaternium-24	The Dow Chemical Co.	0.10
	Tauranol® I-78	Sodium Cocoyl Isethionate	Innospec Performance Chemicals	4.70
D.	Preservative	-----	-----	q.s.
	Fragrance	-----	-----	q.s.
	Color	Color	-----	q.s.
<b>Total</b>				<b>100.00</b>

## Mixing Procedure

1. Mix ingredients of Phase A with moderate propeller agitation while heating to 70°C. Keep mixing until uniform.
2. Add Phase B to Phase A and mix until uniform.
3. Heat deionized water of Phase C to 65-70°C and dissolve the Quatrisoft Polymer LM-200. Slowly add the Tauranol I-78 once the Quatrisoft Polymer LM-200 has completely dissolved.
4. Slowly add Phase C to Phase AB. Mix until uniform.
5. Cool to 50°C.
6. Add Phase D in the order listed to Phase ABC with moderate propeller agitation. Cool mixture to room temperature.

Note: The information herein is based on our research and the research of others and is believed to be accurate. No guarantee of accuracy is made and the products are provided without warranty, expressed or implied and upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Likewise, statements concerning the possible use of these products are not intended as recommendations to use these products in infringement of any patent or in the treatment, prevention, or cure of any medical condition. INCI/trade names must be verified with each manufacturer. (Cleared for Public Disclosure)