



Formulation courtesy of

Shampoo With Floraesters K-20W

This luxurious shampoo is oil-free and silicone-free. **Floraesters K-20W** Jojoba conditions the hair by reducing wet comb force, leaving the hair soft and manageable and is proven to protect hair color.

	Trade Name	INCI Name	Function	%W/W	Supplier
1	Deionized Water	Aqua	Solvent	q.s.	
2	Versene® Na2 Crystals	Disodium EDTA	Chelating Agent	0.1	Dow Chemical
3	Carbopol® Aqua SF-1 Polymer	Acrylates Copolymer	Thickener	6.5	The Lubrizol Corporation
4	Glucamate® CCO	Methyl Glucose Caprate/Caprylate Oleate (and) Propanediol	Thickener	2	The Lubrizol Corporation
5	Chemccinate® DSLS-K Surfactant	Disodium Laureth Sulfosuccinate	Surfactant	12	The Lubrizol Corporation
6	Plantaren® 2000 N UP	Decyl Glucoside	Surfactant	8	BASF Corporation
7	Perlastan® L-30	Sodium Lauroyl Sarcosinate	Surfactant	8	Schill & Seilacher
8	Pureact I-78C	Sodium Cocoyl Isethionate	Surfactant	2	Innospec Performance Chemicals
9	Rita EGDS	Glycol Distearate	Opacifier	1.5	Rita Corporation
10	Deionized Water	Water	Solvent	5	
11	Zemea® Propanediol	Propanediol	Humectant	0.5	DuPont Tate & Lyle BioProducts
12	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Emollient	2.5	Floritech
13	Chembetaine® C Surfactant	Cocamidopropyl Betaine	Surfactant	8	The Lubrizol Corporation
14	AquaCat® CG518	Guar Hydroxypropyltrimonium Chloride	Conditioning agent	0.7	Ashland, Inc.
15	AMP-Ultra® PC 2000	Aminomethyl Propanol	Neutralizer	q.s.	Angus Chemical Company
16	Fragrance	Parfum	Fragrance	q.s.	Orchidia
17	Microcare PHD	Phenoxyethanol (and) Decylene Glycol (and) Propylene Glycol	Preservative	q.s.	Thor Specialties, Ltd.
18	Citric Acid (30% Solution)	Citric Acid (and) Water	pH adjuster	q.s.	ADM
			Total	100	

ProTec Ingredia Ltd

Unit 10, Delta Court, Manor Way, Borehamwood, Hertfordshire, WD6 1FJ, UK

Website: www.protectingredia.com

Registered in London No. 07517784 VAT No. GB 100 2120 14

Method of Manufacture

Into the main vessel add:

Purified Water	Start the mixer on a moderate speed.
Disodium EDTA	Mix until fully dissolved and no lumps remain.
Carbopol® Aqua SF-1 Polymer	Mix until uniform.

Turn down the mixer to a slow speed.

Commence heating vessel to 70 - 70C.

Into the main vessel add:

Glucamate® CCO	Mix until homogenous.
Chemccinate® DSLS-K	Mix until homogenous.
Plantaren® 2000 N UP	Mix until homogenous.
Perlastan® L-30	Mix until homogenous.
Pureact I-78C	Mix until homogenous.
Rita EGDS	Mix until homogenous.

Reduce heat to 60 - 65C

In a separate vessel add:

Propanediol	
Floraesters K-20W Jojoba	Mix until fully dispersed.
Water	Mix until uniform.

Add the premix vessel to the main vessel, stir slowly until homogenous.

Into the main vessel add:

Cocamidopropyl Betaine	Mix slowly until homogenous.
------------------------	------------------------------

Cool to 50 - 55C

Into the main vessel add:

AquaCat CG518	
Aminomethyl Propanol	Mix at moderate to slow speed and continue to cool to 45 - 50°C

Cool to 45 - 50

Into the main vessel add:

Fragrance	
Preservative	Mix at moderate to slow speed and continue to cool to room temperature.

Check product specifications

Product Specifications

pH	6.0 - 7.0
Viscosity	4400 - 7900cP
Colour	White
Appearance	Opaque mobile liquid

ProTec Ingredia Ltd
Unit 10, Delta Court, Manor Way, Borehamwood, Hertfordshire, WD6 1FJ, UK
Website: www.protecingredia.com
Registered in London No. 07517784 VAT No. GB 100 2120 14

The information provided, to the best of our knowledge is believed to be correct however we do not guarantee its accuracy. Potential purchasers shall not only rely on information stated herein when purchasing any products and should make their own investigations to determine if such products are suitable for a particular use. It is your responsibility to thoroughly test any formulations and all warranties, indemnities or liabilities implied or expressed by law are hereby excluded by ProTec Ingredia Ltd to the fullest extent permitted by law.