

AMMONIA-FREE LONG LASTING HAIR DYE

with Floraesters K-20W[®] Jojoba



Phase	Trade Name	INCI	Supplier	%WT
A	Deionized Water	Water	-----	q.s.
	Versene [®] 220 Crystals Chelating Agent	Tetrasodium EDTA	The Dow Chemical Co.	0.20
	Monoethanolamine	Ethanolamine	The Dow Chemical Co.	5.00
	Glycol Ether DE LGV	Ethoxydiglycol	The Dow Chemical Co.	2.00
	Oleic Acid P	Oleic Acid	NOF America Corporation	4.00
B	Propylene Glycol USP/EP	Propylene Glycol	Ashland	2.00
	Floraesters K-20W Jojoba	Hydrolyzed Jojoba Esters (and) Water (Aqua)	Cargill Beauty	2.00
C	Deionized Water	Water	-----	q.s.
	L-Ascorbic Acid, FCC	Ascorbic Acid	Sigma-Aldrich, Inc.	0.50
	Sodium Sulfate Anhydrous (Granular/Certified ACS)	Sodium Sulfate	Fisher Scientific	1.00
	Covastyle LP-PPD	p-Phenylenediamine (PPD)	Sensient Cosmetic Technologies	0.50
	Sulfochem [®] SLS	Sodium Lauryl Sulfate	The Lubrizol Corporation	1.00
D	Lanette [®] 16	Cetyl Alcohol	BASF Corporation	12.00
	Hallstar [®] NCD-20	Cetearyl Alcohol (and) Cetareth-20	The HallStar Company	13.00

CHARACTERISTICS

- **pH:** 10 - 11
- **Viscosity:** 152 - 444kcP

PROCESS

1. Add the ingredients of Phase A to the main vessel in the order listed at 75°C and mix with moderate propeller agitation.
2. Mix the ingredients of Phase B in a separate vessel. Add to Phase A at 75°C with moderate propeller agitation.
3. Add the ingredients of Phase C in the order listed to Phase AB at 75°C with moderate propeller agitation.
4. In a separate vessel, mix the ingredients of Phase D. Add to Phase ABC at 70-75°C with moderate propeller agitation.
5. Stop heating once the mixture becomes a uniform emulsion. Cool to room temperature.



This ammonia-free permanent hair dye features **Floraesters K-20W Jojoba**. **Floraesters K-20W Jojoba** is a natural emollient which decreases dye time and hair dye fading. The results are soft hair with long lasting color and shine.

PATENTS AND REGULATIONS The information presented herein is intended to illustrate the possible technical applications of our products. However, since the use of this information and our products is beyond our control, any recommendations or suggestions are made without guarantee of warranty in each country and particularly in the absence of patent rights. In addition, we recommend that the user ensures that this product is in compliance with the local regulations in force, particularly in the country where the finished product is to be consumed. It is the responsibility of the user to comply with the patents and the regulations in force.

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