

ANTI-FRIZZ & CONDITIONING HAIR SPRAY



· White and fluid O/W emulsion

· Packaging: spray

· Association of Montanov L & Simulgel™
INS100 to formulate emulsions which are:

· Ultra-fluid and sprayable

· Compatible with Cetrimonium Chloride
(cationic anti-frizz agent)



EU07032 - 0803

Formula

A	MONTANOV™ L	0,50 %
	Cyclopentasiloxane & Dimethiconol	2,00 %
B	SIMULGEL™ INS 100	1,20 %
	Aqua/Water	Up to 60 %
C	Aqua/Water	Up to 100 %
	Cetrimonium Chloride	0,50 %
D	SEPICIDE™ HB	1,00 %
	Parfum/Fragrance	0,10 %
	Lactic Acid	Up to pH 5 - 5,5

Procedure

(Pilot – Trimix – 5Kg)

Weigh the water of phase B and incorporate it into the main tank. Add Simulgel INS 100 and start mixing to make the gel. Combine phase A ingredients and melt them before adding them onto the gel. Start homogenizing. When the emulsion is smooth, add very slowly Cetrimonium Chloride - which has been pre-solubilized with the rest of water while stirring. When the mixture is homogeneous, add the remaining ingredients in listed order and adjust the pH to 5.5 with Lactic Acid.

Characteristics

Appearance	Thin white emulsion
pH at M1 RT	5.9
Viscosity at M1 RT	850 mPa.s BROOKFIELD LV2 sp.6
Viscosity after 1 month at 45°C	560 mPa.s BROOKFIELD LV2 sp.6
Viscosity recovery at RT (after 1 month at 45°C)	1,730 mPa.s BROOKFIELD LV2 sp.6
Stability	> M1 at RT and 45°C 1 month after freeze-thaw cycles -5 / +40°C Stable after 20' centrifugation at 3000 rpm at RT & 45°C Stable after 18h at -18°C

Raw materials from SEPPIC

MONTANOV™ L

C14-22 Alcohol and C12-20 Alkyl Glucoside

Glucolipid emulsifier in harmony with nature. Montanov™ L is really useful to synthesize fluid formulas no matter the nature or the quantity of fatty phase used. It also allows to stabilize emulsions.

SIMULGEL™ INS 100

Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer and Isohexadecane and Polysorbate 60

This compound is in the form of liquid, and is ready-for-use. It is a thickening agent which stabilizes all types of oily phases. It can be used in a wide range of pH (3 to 11), and for the development of all types of consistencies: sprays, ultra-fluid to thick ones. It gives to the formulas a fresh and melting texture.

SEPICIDE™ HB

Phenoxyethanol and Methylparaben and Ethylparaben and Propylparaben and Butylparaben

Preservative

Other raw materials...

- Cyclopentasiloxane and Dimethiconol: **Dow Corning 1501 Fluid (DOW CORNING)**
- Cetrimonium Chloride: **Genamin CTAC (CLARIANT)**
- Fragrance: **Panteon Lively RS10810 (TECHNICO FLOR)**
- Lactic Acid: **aqueous solution 12%**