



· **Sprayable fluid**

· **Packaging: spray**

· **This formula proves that Simulgel™ INS100 & DHA are perfectly compatible**

· **Simulgel INS100 enables to formulate fluid and/or sprayable formulas**



EU07048 - 0803

Formula

A	SIMULGEL™ INS 100	0,90 %
	Cyclohexasiloxane and Cyclopentasiloxane	3,00 %
	Dimethicone	3,00 %
	C12-15 Alkyl Benzoate	6,00 %
B	Aqua/Water	38,95 %
	Dihydroxyacetone	5,00 %
C	Glycerin	3,00 %
	Parfum/Fragrance	0,20 %
	Phenoxyethanol and Ethylhexylglycerin	1,00 %
D	Aqua/Water	Up to 100 %
	Lactic Acid	Up to pH 4

Procedure

(Pilot – Trimix – 5 Kg)

Weigh and incorporate each ingredient of phase A in the main tank. Before adding the phase B onto the phase A, make sure that the DHA is well-solubilized. Start homogenizing. When the mixture is homogeneous, add phase C ingredients while mixing. Eventually add the rest of the water and adjust the pH to 4 with the Lactic Acid

Characteristics

Appearance	Thin white emulsion
pH after 1 month at RT	3.95
Viscosity after 1 month at RT	3,200 mPa.s BROOKFIELD LV2 sp.6
Viscosity after 1 month at 45°C	1,510 mPa.s BROOKFIELD LV2 sp.6
Viscosity recovery at RT (after 1 month at 45°C)	1,950 mPa.s BROOKFIELD LV2 sp.6
Stability	> M1 at RT and 45°C > M1 after freeze-thaw cycles -5 / +40°C Stable after 20' centrifugation at 3000 rpm at Rt and 45°C

Raw materials from SEPPIC

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.

Other raw materials...

- Cyclohexasiloxane and Cyclopentasiloxane : **Dow Corning 246 Fluid (DOW CORNING)**
- Dimethicone : **Dow corning 200/350 (Dow Corning)**
- Dihydroxyacetone : **DHA (MERCK)**
- Parfum : **Silkun Fruits RS1 1509 (TECHNICO FLOR)**
- Lactic Acid : **solution aqueuse à 12%**
- Phenoxyethanol and Ethylhexylglycerin : **EUXYL PE9010 (Schulke & Mayr)**