

## Organic Filters Lotion SPF 30

Formula Number: 100-17-07H

This fluid emulsion offers moderate protection from sunlight while also ensuring high skin hydration. Olivem® 2090 is a W/O cold-process emulsifier that can create a light, easily spreadable lotion. Olivem® 900 gelifies the oil phase, giving a silky and nourishing texture. HallBrite® BHB is an emollient sunscreen dispersant ingredient that helps the spreading providing an elegant texture. The formula is further enriched with DIAM Oléoactif®, adding a very powerful anti-inflammatory effect, and EuroI® BT which works as an anti-irritant and antioxidant agent. Finally, Solastay® S1 improves sunscreen performance, protecting avobenzone from photodegradation.

Phase	INCI Name [INN/USAN] (Other Information)	Trade Name	% Wt	Function
A	Water (Aqua)		Up to 100	Volatile Carrier
	Propanediol		2.00	Humectant
	Magnesium Sulfate		1.50	Stabilizing Agent
B	<b>Ethylhexyl Methoxycrylene</b>	<b>SolaStay® S1</b>	<b>3.00</b>	<b>Photostabilizer</b>
	Diethylamino Hydroxybenzoyl Hexyl Benzoate		3.00	UV Filter/Sunscreen Agent
	Ethylhexyl Triazone		5.00	UV Filter/Sunscreen Agent
	Ethylhexyl Salicylate [Octisalate]		5.00	UV Filter/Sunscreen Agent
	<b>Butyloctyl Salicylate</b>	<b>HallBrite® BHB</b>	<b>5.00</b>	<b>Sunscreen Solvent/Emollient</b>
	<b>Polyglyceryl-4 Olivatate/Polyricinoleate</b>	<b>Olivem® 2090</b>	<b>4.00</b>	<b>Multifunctional Cold Process Emulsifier</b>
	<b>Isopropyl Myristate</b>	<b>HallStar® IPM-NF</b>	<b>8.00</b>	<b>Emollient</b>
	<b>Cocos Nucifera (Coconut) Oil, Quercus Suber Bark Extract, Oak Root Extract</b>	<b>DIAM Oléoactif®</b>	<b>1.00</b>	<b>Active Ingredient</b>
	<b>Sorbitan Olivatate</b>	<b>Olivem® 900</b>	<b>1.00</b>	<b>Lipogelling Agent</b>
C	Butyl Methoxydibenzoylmethane [Avobenzone]		3.00	UV Filter/Sunscreen Agent
D	Preservative		a.n.	Preservative
	Coconut/Palm Kernel Alkanes		3.00	Volatile Carrier

### PREPARATIVE PROCEDURE

1. Prepare phase A and heat it up to 80-85°C, mixing with magnetic stirrer.
2. Prepare phase B and heat it up to 80-85°C, stirring with anchor pale at 250rpm.
3. Add the ingredients of phase C to phase B and mix until homogeneous, keeping the temperature to 80-85°C.
4. Add very slowly the phase A to phase BC with anchor pale at 250rpm, keeping the temperature to 80-85°C.
5. Stir phase ABC under anchor pale for 2 minutes at 250rpm.
6. Homogenize the phase ABC, using a suitable dispersion unit (Silverson) for 2 minutes.
7. Cool down to 40°C under stirring (50 - 100 rpm).
8. Add the ingredients of phase D individually, homogenizing using a suitable dispersion unit (Silverson) for 1 minute.

### PRODUCT CHARACTERISTICS (25°C)

Appearance (25°C): yellow fluid cream

Viscosity (Brk, RVDV-E, Sp 5, 20 rpm, after 24 h at room temperature; mPa·s): 1500-5500