

# Sun Cream

## Suncare

Formulation 01414



## Attributes

W-in-O Emulsion  
Ease of Spreading

## Components

Phase	Order	Ingredient	INCI Name	Wt%	Supplier	Trade Name
A		Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2		
A		Neo Heliopan AV	Ethylhexyl Methoxycinnamate	5		
A		Neo Heliopan OS	Persea Gratissima (Avocado) Oil	5		
B		DOWSIL™ BY 25-337	PEG/PPG-19/19 Dimethicone (and) C13-16 Isoparaffin (and) C10-13 Isoparaffin	7		
B		XIAMETER™ PMX-200 Silicone Fluid 5 cSt	Dimethicone	9.5		
B		DOWSIL™ FZ-3196 Fluid	Caprylyl Methicone	9.5		
B		DOWSIL™ 556 Cosmetic Grade Fluid	Phenyl Trimethicone	2		
C		Water	Water	48.7		
C		Sodium Chloride	Sodium Chloride	1		
C		Glycerin	Glycerin	5		
D		Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	5		
E		DMDM Hydantoin	DMDM Hydantoin	0.3		

# Procedure

Step	Process
1	Mix the ingredients of phase A and heat to 85°C during 10 minutes.
2	Mix all ingredients of phase C until homogeneous.
3	Mix ingredients of phase A and B until homogeneous.
4	Slowly add phase C to phase (A+B), drop by drop while mixing at 700 rpm.
5	After the addition is complete, mix for an additional 5 minutes at 2000 rpm.
6	Add phase D then phase E and mix for 5 minutes at 2000 rpm.
7	Pass through high shear mixer (Silverson: 1 min 15 s for 250 g).

## Stability

Stable for at least 3 months at room temperature and 40°C.

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