

Smooth Screen

W-in-O Emulsion

Formulation 01922



Attributes

- Comfort Wear
- Low White Residue on the Skin
- High Compatability w/ UV Absorbers
- Facial Care w/ Very High Sun Protection
- SPF 50+ (In-Vitro)
- PEG-Free Formulation
- Easy to spread, low viscosity emulsion.
- Smooth, Slippery and Non-tacky after feel

Components

Phase	Order	Ingredient	INCI Name	Wt%	Supplier	Trade Name
A		Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2		
A		Neo Heliopan OS	Persea Gratissima (Avocado) Oil	5		
A		Neo Heliopan AV	Ethylhexyl Methoxycinnamate	5		
B		DOWSIL™ ES-5600 Silicone Glycerol Emulsifier	Diglyceryl Tris(Trimethylsiloxy)silylethyl Dimethicone	7		
B		DOWSIL™ FZ-3196 Fluid	Caprylyl Methicone	6.8		
B		XIAMETER™ PMX-200 Silicone Fluid 5 cSt	Dimethicone	3.3		
B		C12-15 Alkyl Benzoate	C12-15 Alkyl Benzoate	4.8		
B		DOWSIL™ 556 Cosmetic Grade Fluid	Phenyl Trimethicone	2		
B		Dicaprylyl Carbonate	Dicaprylyl Carbonate	1.3		
C		Water	Water	51.5		
C		Glycerin	Glycerin	5		
C		Sodium Chloride	Sodium Chloride	1		
D		Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	5		
E		DMDM Hydantoin	DMDM Hydantoin	0.3		

Procedure

Step	Process
1	Mix ingredients of phase A together and heat to 85°C.
2	Mix phase B ingredients together.
3	Cool to room temperature.
4	Add phase B to phase A with mixing.
5	Mix phase C ingredients together.
6	Slowly add phase C to phase (A+B), drop by drop while mixing at 700 rpm.
7	Mix for an additional 5 minutes at 2000 rpm.
8	Pass through high shear homogenizer for 30 s.
9	Add phase D then phase E and mix for 5 minutes at 2000 rpm.

Stability

Stable for at least 3 months at RT and for 2 months at 40°C

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