

# Fun n Sun

## O-in-W Emulsion

Formulation 02232



### Attributes

- SPF Enhancement
- Light Feel
- Easy to Apply
- SPF 20 (In-Vitro)
- UVA Protection
- Sprayable Liquid Formulation
- Daily Use
- For neck, hands, arms, and face

### Components

Phase	Order	Ingredient	INCI Name	Wt%	Supplier	Trade Name
A		Butyl Methoxydibenzoylmethane	Butyl Methoxydibenzoylmethane	2		
A		Octocrylene	Octocrylene	8		
B		C12-15 Alkyl Benzoate	C12-15 Alkyl Benzoate	4		
B		Ethanol	Ethanol	4		
B		DOWSIL™ FA 4002 ID Silicone Acrylate	Isododecane (and) Acrylates/ Polytrimethylsiloxymethacrylate Copolymer	7.5		
B		DOWSIL™ OFX-5329 Fluid	PEG-12 Dimethicone	10		
B		Cucumber Extract	Cucumis Sativus (Cucumber) Fruit Extract	0.5		
B		Laureth-23 (and) Aqua	Laureth-23 (and) Aqua	0.5		
C		Water	Water	56.99		
C		Triethanolamine	Triethanolamine	2.5		
C		Neo Heliopan® Hydro	Phenylbenzimidazole Sulfonic Acid	3		
C		Carnosine	Carnosine	0.01		
D		Phenoxyethanol (and) Ethylhexylglycerin	Phenoxyethanol (and) Ethylhexylglycerin	1		

# Procedure

Step	Process
1	Mix ingredients of phase A together and heat to 85°C for few minutes until homogeneous. Let cool down to room temperature.
2	Add phase B ingredients in order listed to phase A. Mix at 300 rpm.
3	Mix ingredients of phase C together.
4	Add phase C to phase AB drop by drop with mixing at 500-1000 rpm. Need to add slowly water phase for a good phase inversion.
5	Add phase D to the blend ABC with mixing.

## Stability

Stable for at least 3 months at room temperature, 40°C and 50°C. Stable for at least 2 months via Turbiscan.

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