

## Guide Formulation

### Personal Care

# Sparkling Oil Gel (FM-2)

Sparkling Oil Gel is a refractive index matched formulation of both oil and water. SeraSol® SC 81 (PEG-12 Dimethicone) is an emulsifier and humectant. SeraSense® GB 10 (Cyclopentasiloxane (and) Dimethiconol) gives long lasting moisturisation to thirsty skin and hair. This product can be used on wet or dry skin, or as a serum for hair.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
<b>Phase A</b>			
Aqua (Water)	15.28	-	Vehicle
PEG-12 Dimethicone	0.50	SeraSol® SC 81/KCC Beauty	Humectant
Propanediol	47.00	Zemea/IMCD (Dupont)	Humectant
Glycerin	14.90	Surfac G995V/Surfachem	Humectant
Citric Acid	0.11	Surfac Citric Acid Mono BP/Surfachem	pH Adjuster
Phenoxyethanol (and) Benzyl Alcohol (and) Potassium Sorbate (and) Aqua (and) Tocopheryl	1.00	Euxyl K700/Schülke	Preservative
<b>Phase B</b>			
Sodium Acrylate (and) Sodium Acryloyldimethyl Taurate Copolymer (and) Isohexadecane (and) Polysorbate 80	4.00	Simulgel EG/Seppic	Thickener
Cyclopentasiloxane (and) Dimethiconol	10.00	SeraSense® GB 10/KCC Beauty	Moisturising
Isononyl Isononanoate	4.00	Lanol 99/Seppic	Emollient
Pyrus Malus (Apple) Seed Oil	3.00	Seatons Alpine Apple Seed Oil/Seatons	Moisturising
Parfum (Fragrance)	0.10	Vitamin 248 Fragrance/Givaudan	Fragrance
<b>Phase C</b>			
Polyethylene Terephthalate (and) Acrylates Copolymer	0.08	Disco VHT Hex 0.006/Azelis	Aesthetics

### Typical Properties

Appearance: Slightly hazy gel with glitter

Viscosity @ 25°C: >15000cP (Brookfield RVT, Sp4, 10rpm)

pH @ 25°C: 5.5 - 6.5

### Method

Mix the ingredients of Phase A until homogenous.

In a separate vessel, mix the ingredients of Phase B.

Measure the refractive index of each phase. Match Phase A to Phase B by either adding water to decrease the RI, or glycerin to increase it.

Add B to A and stir until homogenous.

Add Phase C.



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Please note that the above formulation is only intended as a guide. It is not a commercial formulation and has not been tested as such. The formulation should be evaluated and modified for your own requirements before use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.