

# BARBIE GLOW MINERAL SUNSCREEN

SUNCARE

FORMULA#: 81-52-2

Our multitasking radiant tinted sunscreen gives skin an instant Barbie glow up.

Application: Apply generously before your favorite foundation and after your moisturizer. You can also wear this on its own for a no-makeup makeup glow.

## HIGHLIGHTED INGREDIENTS

INGREDIENT	FUNCTION
MT N1	A coated Titanium Dioxide that offers UV protection with less whitening effect on skin.
MZX-304OTS	A coated, broad spectrum Zinc Oxide.
PEARLFLAKE BRONZE	A versatile, easy to incorporate pigment that provides rich luster and brilliance
PEARLFLAKE YELLOW	A versatile, easy to incorporate pigment that provides rich luster and brilliance
PEARLFLAKE BLACK	A versatile, easy to incorporate pigment that provides rich luster and brilliance
ArcoPearl FEHD 410	A high-definition Interference pigment with outstanding visual effects and exceptional brightness.

## FORMULATION

PHASE	TRADE NAME	INCI NAME	SUPPLIER	% W/W
A	Water	Water (Aqua)		51.30
	GreenDiol	2,3-Butanediol (and) water	Presperse	2.50
	Sodium Phytate	Sodium Phytate	Lotion Crafter	0.05
	SymSave H	Hydroxyacetophenone	Symrise	0.50
	SymDiol 68	1,2-Hexanediol (and) Caprylyl Glycol	Symrise	0.50
	Pellicer L-30	Water (and) Sodium Dilaureamidoglutamide	Presperse	0.20
	Keltrol CG-T	Xanthan Gum	CP Kelco	0.30
B	Emulgade PL 68/50	Cetearyl Glucoside (and) Cetearyl Alcohol	BASF	3.50

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PHASE	TRADE NAME	INCI NAME	SUPPLIER	% W/W
	Cetearyl Alcohol	Cetearyl Alcohol	HallStar	1.50
	Jeechem DIA	Diisopropyl Adipate	Jeen	10.00
	<b>Luxsil AL Free</b>	<b>Calcium Sodium Borosilicate</b>	<b>Presperse</b>	1.00
	<b>SiClone SR-5</b>	<b>Isohexadecane (and) Isododecane (and) C13-15 Alkane</b>	<b>Presperse</b>	5.00
	Jeechem CTG	Caprylic/Capric Triglyceride	Jeen	10.00
	<b>Pearlflake Bronze</b>	<b>Bismuth Oxychloride (CI 77163) (and) Iron Oxides (CI 77492) (and) Isododecane (and) Copernicia Cerifera (Carnauba) Wax (and) Butyrospermum Parkii (Shea) Butter</b>	<b>Presperse</b>	0.70
	<b>Pearlflake Yellow</b>	<b>Bismuth Oxychloride (CI 77163) (and) Iron Oxides (CI 77492) (and) Isododecane (and) Copernicia Cerifera (Carnauba) Wax (and) Butyrospermum Parkii (Shea) Butter</b>	<b>Presperse</b>	0.40
	<b>Pearlflake Black</b>	<b>Bismuth Oxychloride (CI 77163) (and) Iron Oxides (CI 77499) (and) Isododecane (and) Copernicia Cerifera (Carnauba) Wax (and) Butyrospermum Parkii (Shea) Butter</b>	<b>Presperse</b>	0.05
<b>C</b>	<b>MZX-304OTS</b>	<b>Zinc Oxide (and) Triethoxycaprylylsilane</b>	<b>Presperse</b>	5.00
	<b>MT-N1</b>	<b>Titanium Dioxide (and) Aluminum Hydroxide (and) Stearic Acid</b>	<b>Presperse</b>	7.00
<b>D</b>	<b>ArcoPearl FEHD 410</b>	<b>Synthetic Fluorophlogopite (and) Titanium Dioxide (CI 77891) (and) Iron Oxides (CI 77491) (and) Tin Oxide</b>	<b>Presperse</b>	<b>0.50</b>

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## PROCEDURE

1. Add water to main beaker and begin propeller mixing with medium high shear, creating a vortex.
2. Sift in xanthan gum and allow to fully disperse and hydrate, about 20 minutes.
3. Once uniform, add remaining phase A ingredients and begin heating to 80C.
4. In a side beaker, combine phase B ingredients and begin heating to 80C, mixing is recommended.
5. Once phase B is homogeneous, add phase C to phase B and mix until fully incorporated.
6. When both phase A and phase B are uniform and at 80C, add phase B to phase A with high shear mixing. Remove from heat and homogenize until uniform.
7. Return to propeller mixing and begin cooling to room temperature.
8. Homogenize again, if necessary, return to propeller mixing and add phase C. Mix until uniform.

## SPECIFICATIONS

Appearance: Tan, pearlescent lotion

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