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MAP SL

Appearance:	Off-white to White Powder
Odor:	Odorless
Solubility (3%):	Soluble in water.
pH (3% in Water):	7.0 - 8.5
Assay (on dry basis):	95% Min.
Total Heavy Metals (Pb):	20 ppm Maximum
CTFA/INCI NAME:	Magnesium Ascorbyl Phosphate
Chemical Name:	Magnesium-L-Ascorbyl-2-Phosphate
CAS#:	114040-31-2
Molecular Formula:	C ₆ H ₆ O ₉ PMg1/2
Molecular Weight:	289.5
Applications:	All cosmetic and personal care products.
Use Levels:	Creams: 1 - 5% Lotions: 0.5 - 3%
Storage and Handling:	Store at room temperature in a cool, dark place.
Standard Packaging:	1 Kg. Poly Bag within Aluminum Foil Bag.

Commentary:

Magnesium ascorbyl phosphate is a stable, water soluble Vitamin C derivative. Vitamin C has been well known for its inhibitory effects on melanin formation, but it has not been widely used for this function due to its instability in formulations. A number of Vitamin C derivatives such as ascorbyl palmitate or ascorbyl stearate, have been used for 20 years as primary depigmenting materials, however, these conventional Vitamin C derivatives can destabilize formulations, magnesium ascorbyl phosphate now replaces other ascorbates in most products.

Features:

- 1.) Water Solubility: MAP SL is completely water soluble and easily absorbed through the skin. Its water solubility offers the formulator with formulating flexibility.
- 2.) Stability: MAP SL is much more stable to heat and light than Vitamin C. Experimental data showed that 3% aqueous solution of MAP SL maintained 90% of its activity after 6 months of storage in 40°C water bath.
- 3.) Skin Lightening/
Beautifying Effects: MAP SL exhibits a strong skin lightening effect which has been shown to be useful in clinical practice. It has strong inhibitory effects on melanin formation, therefore resulting in beautified, even-toned skin.
- 4.) Radical Scavenger: Once absorbed into the skin, MAP SL can act as a radical scavenger to eliminate radicals and remove the signs of wrinkles and aging.
- 5.) Synergistic with Vitamin E:
- 6.) Stable Formation: MAP SL works synergistically with Vitamin E. Unlike other skin lightening agents such as hydroquinone, MAP SL is stable without color change problems.
- 7.) Safety: MAP SL is very safe with no toxicity and irritation.



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24-Hour Fading Cream Formulation

Supplier	Part	Ingredient	INCI Description	Percent
	A	Deionized Water		58.00
JEEN Int'l	A	Propylene Glycol	Propylene Glycol	4.00
Sino Lion	A	Olevadew	Sodium PCA	10.00
Sino Lion	A	Pearl SL	Hydrolyzed pearl	5.00
JEEN Int'l	A	MAP SL	Magnesium ascorbyl phosphate	2.00
Croda	B	Crodamol PTO	Pentaerythrityl tetracaprylate/ tetracaprate	7.00
JEEN Int'l	B	JEECOL P	Emulsifying Wax	4.00
Croda	B	Incroquat Bhehenyl TMS	Behentrimonium methosulfate	3.00
JEEN Int'l	B	MAP SL	Kojic dipalmitate	2.00
BASF	C	Luvitol PE	Polyethylene	5.00
	D	Preservatives		Q.S.

Procedure: Combine Part A with mixing and heat to 80-85°C. Combine Part B with mixing and heat to 80-85°C. Add Part B to Part A, mixing with a homogenizer, continue homogenizing and cool to 60-65°C. Change to a sweep-blade mixer and cool to 35-40°C with mixing. Add Part C with mixing. When uniform, add Part D with mixing. Continue mixing and cool to desired fill temperature.

Comment: This stable, mild fading cream contains kojic dipalmitate and magnesium ascorbyl phosphate, a highly stable form of Vitamin C, and hydrolyzed pearl, an excellent source of nutrition for amino acids and minerals. The cream acts day and night to produce excellent skin-lightening effects and even-toned results without color-instability or skin-drying problems.

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