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Vitamin C (Magnesium Ascorbyl Phosphate)

Specification Sheet

Description: Very stable vitamin C derivative (L-Ascorbic acid mono-dihydrogen phosphate magnesium salt) that does not degrade in formulas containing water. Light-stable and oxygen-stable. Purity >98.0%. May discolor at pH <6. Best when used in emulsion-based products at pH between 5-7.

CAS: 113170-55-1

INCI Name: Magnesium ascorbyl phosphate

Composition: Magnesium ascorbyl phosphate

Appearance: White to off white powder, odorless.

Benefits:

- Stabilized and degradation resistent form of vitamin C
- Potent antioxidant (shown to be able to protect skin from oxidative damages)
- Can improve appearance of aged and fragile skin
- Widely used as add-on ingredient in skin-lightening products to correct hyperpigmentation and age spots
- Antioxidant effect can be increased by combining Magnesium Ascorbyl Phosphate with L-ascorbic acid and/or vitamin E

Use: Add at the end of the formulation process just before the preservative, by pre-dissolving in little distilled water. Typical use level 0.2-3%, but up to 10% (for skin-lightening effect). For external use only.

Applications: Lotions, creams, sun care & after sun products, makeup products.

Solubility: Soluble in water (154g/l corresponding to about 15%)

Preservation: Preservative-free

Storage: Store light-protected at a cool and dry place.

Country of Origin: China

Raw material source: L-ascorbic acid, magnesium, and phosphoryl chloride (or other phosphorylating agents).

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Manufacture: Magnesium ascorbyl phosphate is produced by direct phosphorylation of ascorbic acid magnesium salt where l-ascorbic acid is suspended in an oxygenated, non-hydroxylic solvent together with magnesium and then treated with a phosphorylating agent.

Animal Testing: Not animal tested.

GMO: GMO-free

Vegan: Does not contain animal-derived components.

HS Code: 2936270000