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SPECIFICATION SHEET

CALCIUM PIDOLATE
Pyrrolidone Carboxylic Acid (PCA) Calcium Salt

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
CAPGIP	2998	31377-05-6	July 11, 2011	SJW	No.2	MPR

EINECS No. 250-60-24

CHARACTERISTICS:	Odorless, white crystalline powder that is water soluble. Manufactured in a class 100K facility using injection grade water.

SPECIFICATIONS:	Assay	98.5-102.0%
	pH (5% w/v of solution)	6.0-7.5
	Clarity of solution (5% w/v of solution)	Clear
	Loss on drying	6.0% max
	Arsenic	3 ppm max
	Chloride	0.1% max
	Sulphate	0.1% max
	Heavy metals	10 ppm max

PACKAGING:	Various packaging combinations are available depending upon customer requirements. Standard packaging is 25 kg fiber drums with inner HMHDPE liners.
APPLICATIONS:	Cosmetic skin creams for anti-aging, humectant, and moisturizing properties. Skin conditioning agent. Used in foundations, concealers, eye shadows, and treatment products.
SHELF LIFE AND STORAGE INSTRUCTIONS:	Material should be re-tested against certificate of analysis three years from date of manufacture and stored in a well closed container in dry location at ambient room temperature (~20°C).
OTHER:	Activates the synthesis of total epidermal lipids, especially ceramides. Stimulates the cell differentiation process. Has strong anti-MMP1 activity. Calcium regulates cell turnover via cell differentiation stimulated by protein kinase C (PKC enzyme). Increased epidermal calcium stimulates rapid cell turnover causing an increase in the up-regulation of absorbable topical calcium resulting in plumper looking skin. Calcium regulates the lipid barrier process. High calcium content in the upper epidermis helps maintain continual and efficient barrier functions. Calcium helps with collagen formation and has a direct relationship with catalase, a powerful antioxidant produced by the skin.