



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### ZINC PIDOLATE

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
ZNPGIP	2998	15454-75-8	February 22, 2011	SJW	No. 1	CDS

<b>CHARACTERISTICS:</b>	Odorless, white crystalline or granular powder that is soluble in water, freely soluble in boiling water and slightly soluble in alcohol.
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<b>SPECIFICATIONS:</b>	Identification	To pass test
	pH (5.0 solution)	Between 5.0 to 7.0
	Chlorides	0.1% max
	Sulphate	0.1% max
	Arsenic	3 ppm max
	Heavy metals	10 ppm max
	Moisture (KF)	12.0% max
	Zinc (dried basis)	19.5-21.5%

<b>PACKAGING:</b>	Standard packaging is 25 kg fiber drum with inner HMHDPE liners.
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<b>APPLICATIONS:</b>	Sebum regulator, anti-bacterial agent for acne and oily skin. Skin moisturizing agent that contributes to the NMF (Natural Moisturizing Factor) of the skin.
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<b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b>	Store in a well-closed container at a temperature not exceeding 25°C (77°F), protected from direct sunlight and moisture. Material should be retested against certificate of analysis two years from date of manufacture.
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<b>OTHER:</b>	Zinc Pidolate is the zinc salt of 2-Pyrolidone, 2-Carboxylic Acid. Zinc Pidolate has mild antimicrobial properties and inhibits both 5 $\alpha$ -reductase activity and the production of activator protein-1 (AP-1). Over production of 5 $\alpha$ -reductase results in Androgenetic Alopecia (AGA), a common form of hair loss in men and women. AP-1 induces upregulation of metalloproteinases like collagenase-1 (MMP-1), Stromelysin-1 (MMP-3) and gelatinase A (MMP-2). Metalloproteinases degrade connective tissue proteins such as collagen and elastin and indirectly inhibit the collagen synthesis in the skin.
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