



American International Chemical, Inc.

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SPECIFICATION SHEET

SODIUM HYALURONATE (Macronan TM PFL10)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
SHYKKL	2330	9067-32-7	July 27, 2009	HHK	No. 2	TJK

CHARACTERISTICS:	White powder produced by bacterial fermentation of Streptococcus zooepidemicus, non-hemolytic bacterial strain. It is a biopolymer that consists of N-acetyl-D-glucosamine and glucuronic acid.
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SPECIFICATIONS:	Clarity (1% solution, 600 nm, 1 cm)	0.01% max
	Sodium hyaluronate (HPLC)	95% min (w/w, on dry basis)
	Glucuronic acid	45.0% min (w/w, on dry basis)
	Protein	0.1% max
	pH (0.5% solution)	5.5-7.5
	Molecular weight	10-50 Kda
	Intrinsic viscosity	0.38-1.58 dL/g
	Viscosity, Brookfield DVII+, SP4; 12 RPM; 1% solution @ 25° C	4.5-63.5 cps
	Heavy metals	20 ppm max
	Arsenic	2 ppm max
	Loss on drying	10% max
	Staphylococcus aureus	Negative
	Pseudomonas aeruginosa	Negative
	Salmonella	Negative
	Hemolytic streptococci	Negative
	Hemolysis	Negative
	Total coliforms	Negative
Total microbial count	100 cfu/g max	
Mold and yeast	100 cfu/g max	

STOCKING POINTS:	No inventory in US. Will fly in from Korea with 3-4 weeks lead-time.
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PACKAGING:	1 kg and 10 kg cartons.
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APPLICATIONS:	Sodium Hyaluronate is a mucopolysaccharide found naturally in the human body, including the skin. It is found in synovial fluid and human joints, where it acts as a lubricant and shock absorber, and is a primary component of cartilage. It is used as an active cosmetic ingredient for skin care in facial creams and lotions, eye contour creams and gels, liposome gels, and body lotions for its moisturizing properties. Also used in joint health care for its viscoelastic and lubricating properties. Claims have been made for skin healing and regenerative properties of the human skin.
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SHELF LIFE AND STORAGE INSTRUCTIONS (if applicable):	Storage: Store at -20 to 6°C out of light source; product should remain stable for approximately 36 months. At higher temperatures product should retain stable for approximately 4 months. Sodium Hyaluronate is guaranteed to meet our minimum spec on the viscosity after one year, if kept unopened in its original container.
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