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Specification Sheet

SODIUM HYALURONATE 1% SOLUTION (Macronan-SF Paraben Free)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
SHYKPF	2330	9067-32-7	April 26, 2012	AR	No. 1	MR

CHARACTERISTICS:	Clear aqueous solution 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:	Transparency (0.5% solution, 660nm, 1cm)	0.01% max
	Sodium hyaluronate (dry basis w/w)	1% min
	Protein (dry basis w/w)	30 ppm max
	pH (0.5% solution)	5.0-8.0
	Molecular weight	1.2 Mda min
	Intrinsic viscosity	20 dL/g min
	Viscosity, Brookfield DVII+, SP 4; 12 RPM; 1% solution @ 25° C	10,000 cps min
	Heavy metals (dry basis)	20 ppm max
	Arsenic (dry basis)	2 ppm max
	Hemolysis	None
	Microbials	
	Total microbial count (by TSA)	100 cfu/g max
	Yeast and mold (by SDA)	100 cfu/g max
	Pathogens	Absent
Preservative (Phenoxyethanol as a Paraben Free preservative)	1.0%	

STOCKING POINTS:	Carson, CA
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PACKAGING:	20 kg PE lined open head drum
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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 lubricating human joints where it acts as a lubricant and shock absorber, and is a primary component of cartilage. It is used as active ingredient for skin care in facial creams and lotions, eye contour creams and gels, liposome gels, and body lotions for its moisturizing and lubricating properties, as well as viscoelasticity. Claims have been made for skin healing and regenerative properties of the human skin.
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SHELF LIFE AND STORAGE INSTRUCTIONS:	Storage: Store at 15 to 25°C out of light source. Shelf life: 3 years from date of manufacture. DO NOT FREEZE.
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