



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

SPECIFICATION SHEET

MANGANESE GLUCONATE DIHYDRATE USP FCC POWDER

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
MNGGIP	2998	6485-39-8	February 17, 2011	JP	No. 2	CDS

CHARACTERISTICS:	Light pink colored powder that is soluble in water and insoluble in alcohol and benzene. Made in a class 100K clean room facility with injection grade water.
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SPECIFICATIONS:	Identification	
	A	To pass test
	B	To pass test
	Assay (on dry basis)	98.0-102.0%
	Water	6.0-9.0%
	Chloride	0.04% max
	Sulfate	0.1% max
	Arsenic	2 ppm max
	Lead	2 ppm max
	Heavy metals	20 ppm max
	Reducing substances	0.8% max
	Residual solvents	Meets requirements
	Manganese content (as dihydrate)	11.00-11.83%
	Solubility in water	5 g in 100ml @20°C
	pH (1% solution)	~ 6.5 (affirmative)
	Particle size	
	Thru a U.S 22 mesh	100%
	Thru a U.S. 80 mesh	60% min
	Bulk density	500-900 kg/m ³
	Microbial limits	
	Total viable aerobic count	500 cfu/g max
	Total mold and yeast	50 cfu/g max
	Enterobacteriaceae	Absent in 1g
	Escherichia coli	Absent in 10g
	Salmonella	Absent in 50 g
	Staphylococcus aureus	Absent in 10g
	Pseudomonas aeruginosa	Absent in 10g

STOCKING POINTS:	Farmingdale, NJ; Houston, TX; Carson, CA (check with office)
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PACKAGING:	Various packaging combinations are available depending upon customer requirements. Standard packaging is 25 kg fiber drums with inner HMHDPE liners. Standard pallet configuration is 15 drums per pallet as 3 layers of 5 drums per layer, with the option to increase layers to 20 or 25 drums per pallet.
APPLICATIONS:	Dietary supplement and food additive, especially for those products that require low total aerobic counts, improved solubility, and low trace minerals.
SHELF LIFE AND STORAGE INSTRUCTIONS:	Store in well closed container in dry location at ambient room temperature (~ 20°C). Material should be re-tested against certificate of analysis three years from date of manufacture.
OTHER:	The manufacturing site is ISO 9000-2004, ISO 14000-2006, WHO cGMP, HACCP, Kosher, Halal certified and has achieved a COS issued by the EDQM. It is certified by NQA to the requirement of HACCP under the Codex Alimentarius. It is a member of the Global Alliance for Improved Nutrition (GAIN), and supports the UNGC, which encourages businesses worldwide to adopt sustainable and socially responsible policies. Global Calcium's plant is self powered by wind energy generating 100% of their energy needs.