



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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

SPECIFICATION SHEET

CALCIUM-MAGNESIUM LACTATE-GLUCONATE (MAGICAL®)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
CMLGIP	2998	814-80-2 3632-91-5	April 13, 2011	JP	No. 1	CDS

CHARACTERISTICS:	White to off white spray dried, free flowing powder. Water soluble. Clear and colorless in solution. Also known calcium-magnesium lacto-gluconate. Manufactured to the standard 2:1 Ca to Mg ratio. Made in class 100K facilities with injection grade water. Approximately 12.5-13 grams per day of Magical provides 100% RDA levels of Calcium and Magnesium
-------------------------	--

SPECIFICATIONS:	Calcium content ("as is" basis)	6.0-8.0%
	Magnesium content ("as is" basis)	3.0-4.0%
	Loss on drying at 105°C for 2 hours	10% max
	Clarity of 10% w/v solution in water at 25°C	Clear to nearly clear
	Color of 10% w/v solution in water at 25°C	Colorless
	Sucrose and reducing sugars	To pass test
	pH (5% solution)	6.0-8.0
	Acidity (as lactic acid)	0.45% max
	Volatile fatty acids	To pass test
	Arsenic	1 ppm max
	Lead	2 ppm max
	Heavy metals	10 ppm max
	Chloride	500ppm max.
	Sulphate	500ppm max.
	Solubility in water	20g in 100ml@ 20°C
	Particle	
	Thru a U.S. 80 mesh	90% min
	Bulk density	250-550kg/m ³
	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	

PACKAGING:	Various packaging combinations are available depending upon customer requirements. Standard packaging is 25 kg fiber drums with inner HMHDPE liners. 18 drums per pallet.
-------------------	---



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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

SPECIFICATION SHEET

CALCIUM-MAGNESIUM LACTATE-GLUCONATE (MAGICAL®) CMLGIP

Page 2

APPLICATIONS:	As a highly soluble, low tasting source of calcium and magnesium in any food, beverage, and nutritional supplement applications. Low viable aerobic count, trace minerals and neutral pH make this most advantageous for beverages.
SPECIAL STORAGE INSTRUCTIONS:	Store in well closed container in dry location at ambient room temperature (~ 20°C)
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.
SHELF LIFE:	Material should be re-tested against certificate of analysis three years from date of manufacture.