



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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## SPECIFICATION SHEET

### MAGNESIUM CITRATE MALATE (VEGICAL®)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Written By	Rev. No.	Approved By
MCMGIP	2998	77-92-9 617-48-1 1309-48-4	January 16, 2007	SDM	SDM	No. 1	RVK

<b>CHARACTERISTICS:</b>	White to off white spray dried free flowing powder. Water soluble. Clear and colorless in solution. Made in class 100K clean room facility with injection grade water. Approximately 3 grams of VEGICAL provides 100% of RDA of Magnesium.
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<b>SPECIFICATIONS:</b>	Identification	
	A. Magnesium	To pass test
	B. Citrate	To pass test
	C. Malate	To pass test
	Magnesium content (as is basis)	11.0-13.0%
	Loss on drying (120°C for 4 hrs)	10.0-15.0%
	pH (10% solution in water)	6.5-8.5
	Arsenic	3 ppm max
	Lead	2 ppm max
	Heavy metals	20 ppm max
	Chloride	0.1% max
	Sulphate	0.1% max
	Total viable aerobic count	1000 cfu/g max
	Total mold and yeast	100 cfu/g max
Escherichia coli	Absent in 10g	
Salmonella	Absent in 50 g	

<b>PACKAGING:</b>	Various packaging combinations are available depending upon customer requirements. Standard packaging is 25 kg fiber drums with inner HMHDPE liners. 18 drums per pallet.
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<b>APPLICATIONS:</b>	As a highly soluble, low tasting source of magnesium in any food, beverage, and nutritional supplement applications. Low viable aerobic count, trace minerals and neutral pH make this most advantageous for beverages.
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<b>SPECIAL STORAGE INSTRUCTIONS:</b>	Store in well closed container in dry location at ambient room temperature (~ 20°C)
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<b>OTHER:</b>	The manufacturing site is WHO cGMP and ISO 9000-2004, ISO 14000-2006 certified. The manufacturer has achieved a COS issued by the EDQM. It is certified by NQA to the requirement of HACCP under the Codex Alimentarius. The product is Kosher and Halal certified. Product should be labeled as Magnesium Oxide, Malic, and Citric Acid, which are listed under GRAS for direct food substances. VEGICAL® is fully qualified to be used as an ingredient in or on processed products labeled as “organic” or “made with organic ingredients”, per USDA National Organic
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	Program (NOP), Section 205.605B.
<b>SHELF LIFE:</b>	Material should be re-tested against certificate of analysis three years from date of manufacture.