



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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SPECIFICATION SHEET

NATAMYCIN 50%

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
NMYZC5	3280	7681-93-8	July 22, 2008	SW	No. 2	SDM

CHARACTERISTICS:	Natamycin is a natural preservative that is an almost white crystalline powder derived from a fermentation process using a yeast powder that is a by-product of the production of beer from bacteria of <i>Streptomyces natalensis</i> . This product contains 50% of food grade lactose.
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SPECIFICATIONS:	Purity (dry basis)	50% min
	Moisture	8% max
	pH (in a 1% solution)	5.0-7.5
	Heavy metals	10 ppm max
	Lead	5 ppm max
	Arsenic	3 ppm max
	Mercury	1 ppm max
	Ash	0.5% max
	Total plate count	100 cfu/g max
	Escherichia coli	Absent
	Salmonella	Absent

PACKAGING:	5 kg or 10 kg cartons or drums with either 100 gram to 500 gram plastic bottles or plastic bag and aluminum foil bag
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APPLICATIONS:	Natamycin 50% is a blend of 50% natamycin (90%-102% purity, dry basis) and 50% food grade lactose. Natamycin is an effective anti-mycotic product that inhibits the growth of molds and yeasts as well as their toxins. Natamycin has no effect on bacteria, so it does not prevent the natural maturing process of yogurt, cheese, fresh ham and sausage etc. In cheese manufacturing, natamycin be applied as a dry mix containing the additive and safe and suitable anti-caking agents, resulting in no more than 20 parts per million (ppm) of the additive in the finished product or by dipping or spraying, using an aqueous solution containing 200 to 300 ppm of the additive. Natamycin may be added to broiler chicken feed at a level of 11 parts per million (ppm) to retard the growth of <i>Aspergillus parasiticus</i> in the feed. Other applications for natamycin may include beverage, baking and fermented food products. Unlike traditional anti-mycotic agents like potassium sorbate or sodium benzoate, natamycin activity is not limited by the pH in the finished product. Natamycin may also be used as an ophthalmic antifungal agent, and in various personal care products as both an anti-mycotic for product preservation and as a topical treatment for fungal infections.
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SPECIAL STORAGE INSTRUCTIONS:	Natamycin should be stored below 15°C and re-tested against the certificate of analysis two years from the date of manufacture.
OTHER:	It has very low solubility in water and most organic solvents. Only 50 mg of Natamycin (as a 95% powder) can be dissolved in pure water at room temperature. This low solubility makes it very suitable for the use on the surface of food. Natamycin is approved by the World Health Organization and the British Pharmacopoeia Commission. It is not listed in GRAS, but this product is FDA approved in food application.