



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### BETA CAROTENE 20% CWD Betanat® 20% CWD

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
BET20P	3180	7235-40-7	February 11, 2010	SW	No. 2	TJK

<b>CHARACTERISTICS:</b>	Betanat® 20% CWD is a reddish, fine or granulated powder consisting of natural $\beta$ -Carotene, derived from <i>Blakeslea trispora</i> , and uniformly dispersed on a matrix of modified food starch with dl-alpha-tocopherol added as a natural antioxidant. The $\beta$ -Carotene used in the manufacture of this ingredient meets the current monographs of the United States Pharmacopeia and European Pharmacopeia. $\beta$ -Carotene is a carotenoid pigment, which is a precursor to Vitamin A in plants.
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<b>SPECIFICATIONS:</b>	Assay	Greater than or equal to 20% of $\beta$ -Carotene
	Dispersability	Dispersible in water
	Spectrometry	Maximum in cyclohexane at ca. 453nm to 456nm
	Loss on drying	Less than or equal to 8%
	Lead	Less than or equal to 2 ppm
	Mold	Less than 100 cfu/g
	Yeast	Less than 100 cfu/g
	Salmonella	Negative in 25g
Escherichia coli	Negative in 5g	

<b>PACKAGING:</b>	20 kg box containing 2 x 10 kg foil bags; 240 kg per pallet
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<b>APPLICATIONS:</b>	Beta Carotene can be used as a source of pro-Vitamin A in nutritional applications, and will impact the vitamin A content listed on nutritional labels. Reference CFR Title 21 sections 101.36 and 101.54 for specific label statements that can be made in regards to Beta Carotene subsequent and Vitamin A content. Beta Carotene can also be used as a colorant in dry foods (beverage powders, cake mixes, instant pudding, icing mixes, dry salad dressings/sauces/gravies), aqueous applications (ice cream, prepared cakes, imitation dairy products, egg substitutes, sauces/gravies), pharmaceuticals and cosmetics.
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<b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b>	Shelf life is 3 years from date of manufacture if kept in the original sealed container. Material is best stored in a tightly closed opaque dry container and at a temperature below 15°C. Once opened the material should be used promptly.
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<b>OTHER:</b>	This material is manufactured in a cGMP facility with a HACCP program. Plant and operational quality standards meet or exceed those required for ISO 9001:2000. All materials have Kosher and Halal certification. Beta carotene is GRAS (Generally Recognized As Safe) and is listed accordingly under Code of Federal Regulations Title 21 section 184.1245.
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