



American International Chemical, Inc.

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SPECIFICATION SHEET

CYANOCOBALAMIN (VITAMIN B12) USP

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
B12AUP	1439	68-19-9	August 29, 2005	LR	Original	RVK

CHARACTERISTICS:	<p>Odorless, tasteless, dark red powder. Hygroscopic: When exposed to air, may absorb about 12% moisture, at which time, material becomes stable to air. Light sensitive. One gram dissolves in 80 mls of water. Soluble in alcohol. Insoluble in acetone, chloroform, & ether. Aqueous solutions are neutral; maximum stability occurs at pH 4.5 to 5. Aqueous solutions decompose in the presence of acacia, aldehydes, ascorbic acid, ferrous gluconate, ferrous sulfate, and vanillin. Aqueous solutions can be stabilized with the addition of ammonium sulfate.</p> <p>While not incompatible, talc's tenacious affinity for vitamin B12 should preclude it from being used as filter aid or lubricant in tablets, as it will skew assay results.</p>
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MOLECULAR FORMULA:	$C_{63}H_{88}CoN_{14}O_{14}P$
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MOLECULAR WEIGHT:	1355.37
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SPECIFICATIONS:	Assay (on dried basis)	96.0–100.5%
	Identification	
	A	To pass test
	B	To pass test
	C	To pass test
	Loss on drying	Not more than 12.0%
	Pseudo cyanocobalamin	To pass test

STOCKING POINTS:	Bridgeport, CT
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PACKAGING:	1,000 gm (1 kg) tin
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APPLICATIONS:	Nutritional food and vitamin supplements. Hematopoietic vitamin.
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SPECIAL STORAGE INSTRUCTIONS:	Light sensitive. Store in tight, light-resistant containers at controlled room temperature.
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