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## Specification Sheet

### LUTEIN ESTER 10% PASTE CWD

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
LUE10P	2680	127-40-2	January 20, 2012	LR/SW	Original	CDS

<b>CHARACTERISTICS:</b>	Lutein ester from marigold flowers ( <i>Tagetes erecta L</i> ) in a semi-solid paste specifically designed for cold water dispersion.
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<b>SPECIFICATIONS:</b>	Lutein	200 g/kg min
	Zeaxanthin	4 g/kg min
	Physical	
	Bulk density	0.7 g/ml min
	Loss on drying	2% max
	Particle size	180 micron max
	Ferrous metal	10 ppm max
	Chemical	
	Heavy metals	10 ppm max
	Cadmium, arsenic, lead and mercury	Available only by request
	Microbiological	
	Total plate count	1,000 cfu/g max
	Coliforms	10 cfu/g max
	Escherichia coli	Absent 10/g
	Salmonella	Absent/25 g
	Yeast and mold	50 cfu/g max
Staphylococcus aureus	Absent 10/g	

<b>PACKAGING:</b>	25 kg and 5 kg foil, heat sealed bags
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<b>APPLICATIONS:</b>	Nutritional supplements (liquid preparations, powder beverage mixes, 2-piece hard-shell capsules and directly compressed tablets), beverages, cosmetics.
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<b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b>	Product expiration date is one year from date of issuance of the CoA. Material is sensitive to oxygen, heat, light and moisture. Store in original unopened container at or below 21 °C.
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<b>OTHER:</b>	GMP, HACCP, ISO 9001:200, ISO 22000:2005, Kosher, GMO free, Allergen free, Non-irradiated and not chemically treated for sanitation.
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