



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

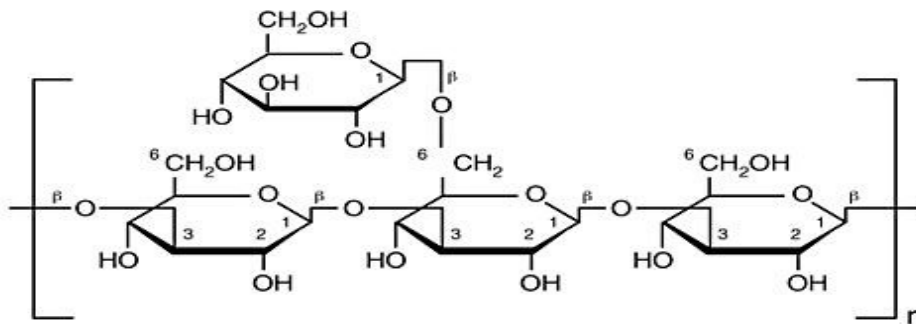
Internet: www.aicma.com Email: info@aicma.com

## SPECIFICATION SHEET

### PLERASAN<sup>®</sup> EQUILIBRA BDP COSMETIC HYDROGEL

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
BGCEQ3	2650	159940-37-1	December 1, 2010	SJW	No. 1	MPR

EINECS No.: 258-443-2	INCI Name: Beta Glucan
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<b>CHARACTERISTICS:</b>	<p>Plerasan Equilibra is a biologically active polysaccharide [beta-(1,3/1,6)-D-glucan isolated from <i>Pleurotus ostreatus</i> (oyster mushroom) in hydrogel form. Chemically it consists of a homopolymer of D-glucose linked by beta-1,3 glycosidic linkage in the main chain. Plerasan Equilibra is a non-transparent, viscous, almost white liquid gel.</p> <p>Contains approximately 1% preservative Isocide BDP (Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid)</p>
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<b>SPECIFICATIONS:</b>	Dry matter	Less than or equal to 2%
	pH	3.0-5.0
	Lipid content	0%
	Protein content	0%
	Boiling point*	100° C
	Total microbial count*	Less than 100
*Data not subject to analytical certification		

<b>PACKAGING:</b>	1 kg and 5 kilo drums
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<b>APPLICATIONS:</b>	Can be used in a wide range of cosmetic emulsion applications. Used in anti-aging, sun care, serums, and sensitive skin products. Used for skin regeneration and wound healing. It has been documented that Plerasan Equilibra stimulates immunity, skin healing and skin regeneration when applied topically.
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Page 2

<b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b>	Shelf life: 24 months in the original sealed containers. Store in a cool, dry area at 3°- 35°C (95°F) away from heat and light.
<b>OTHER:</b>	Plerasan Equilibra is an immunomodulator which activates the Langerhans cells in the epidermis leading to increased immune activity. When the Langerhans cells are activated cytokines are released which communicate with fibroblasts. Fibroblast communication results in increased production of chondroblast, collagenoblast, and osteoblast cells. Keratinocyte cells are activated by Plerasan Equilibra enabling a more balanced and accelerated skin regeneration process. Plerasan Equilibra has excellent sensory properties with good physico-chemical stability. Plerasan Equilibra can be pre-dispersed in the water phase, before emulsifying or it can be added after the water phase after emulsification has occurred at a temperature below 60°C. The recommended usage level for Plerasan Equilibra is between 2% and 10%. At higher usage levels Plerasan Equilibra can be used in skin treatment products for dermatitis, neurodermatitis, atopic eczema, decubitus ulcers or ulcerous lesions to the legs.