



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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

SPECIFICATION SHEET

PIROCTONE OLAMINE (CleanBio™ PO)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
PROKKC	2330	68890-66-4	April 1, 2010	HHK	Original	TJK

CHARACTERISTICS:	White or off-white powder
-------------------------	---------------------------

SPECIFICATIONS:	Assay	98.0-101.5%
	pH (1% aqueous suspension)	8.5-10.0
	Melting point	133-136°C (with decomposition)
	Loss on drying	Not more than 0.30%
	Sulfated ash	Not more than 0.2%
	Heavy metals	Not more than 10 PPM
	Monoethanolamine	20.1 - 20.9%

STOCKING POINTS:	Not stocked yet. Orders can be booked with 4 -6 weeks lead-time.
-------------------------	--

PACKAGING:	20 kg fiber drum; 10 drums/pallet (200 kg)
-------------------	--

APPLICATIONS:	CleanBio™ PO is a practically nontoxic anti-dandruff active ingredient with splendid anti-fungal efficacy, which is also highly efficient against both gram-positive and gram-negative bacteria. It has excellent water solubility, which allows inclusion as an anti-dandruff agent in clear shampoos and hair care products such as hair tonics and rinses with anti-dandruff action.
----------------------	---

SHELF LIFE AND STORAGE INSTRUCTIONS	Store at room temperature in sealed, light-resistant containers. Protect from moisture. If stored correctly in original container, CleanBio™ PO can be kept for at least three years.
--	---

OTHER:	<p>Stability</p> <p>A. pH: Stable in solution of pH 3 to pH 9.</p> <p>B. HEAT: Stable to heat, and to short time of high temperature above 80°C. CleanBio™ PO in shampoo of pH 5.5-7.0 remains stable after one year of storage at a temperature over 40°C.</p> <p>C. LIGHT: Decompose under direct ultraviolet radiation. So it should be protected from light.</p> <p>D. METALS: An aqueous solution of CleanBio™ PO degrades in the presence of cupric and ferric ions.</p> <p>Compatibility</p> <p>CleanBio™ PO is compatible with many cosmetic ingredients, especially with cationic surfactants (quaternary ammonium compounds) and cationic active components. In some cases, this re-mixture increases its solubility.</p>
---------------	---