

PIROCTONE OLAMINE

INCI Piroctone Olamine
CAS 68890-66-4

SPECIFICATIONS

Appearance White crystalized powder
Assay (%) 98 min

GENERAL INFORMATION

Piroctone olamine is the ethanolamine salt of the hydroxamic acid derivative piroctone. Piroctone olamine exerts potent antibacterial, anti-inflammatory and antimicrobial activity. It is used in the treatment of seborrheic dermatitis and peeling. It fights against the proliferation of Pityrosporum ovale, which is the main cause of dandruff production. Piroctone olamine is ideal for those with oily hair, as it regulates the production of sebum in the scalp. It plays an important role in eliminating bad odors and also has an anti-oxidant action and contrasts free radicals, the main cause of aging.

BENEFITS

- Formaldehyde-free, Paraben-free, broad-spectrum anti-microbial
- Excellent anti-dandruff activity by soothing inflamed scalp and reducing flaking
- Effectively eliminates unpleasant odor, both for humans and pets
- Additional thickening properties
- Decreases the sebum output at the skin surface, suitable for anti-acne application
- Increase the mean hair shaft thickness, suitable for volume-up formula
- Clinically approved effective, safe to use, non-irritating
- Suitable for clear formulations

FORMULATION & RECOMMENDATIONS

Rinse-off Anti-dandruff/ Anti-acne / Pet care
0.1 - 1.0%
Leave-on Anti-dandruff/ Anti-acne / Pet care
0.05 - 0.5%
Deodorant Spray
0.2 - 0.5%

EFFICACY

The MIC of PO against 11 microorganisms stabilizes between 6.25 and 25mg/l - (theoretical minimum dosage 0.0025 %).

Wide-spectrum of antibacteria and antifungi properties

Microorganism	MIC (mg/L)
Gram-negative bacteria	
Escherichia coli	12.5
Gram-positive bacteria	
Staphylococcus aureus	6.25
Staphylococcus epidermidis	6.25
Propionibacterium acnes	6.25
Fungi	
Trichophyton rubrum	6.25
T. mentagrophytes	12.5
Microsporum canis	12.5
Epidermophyton floccosum	6.25
Yeast	
Candidas albicans	25
Candida tropicalis	25
Malassezia furfur	12.5

APPLICATIONS

- Antidandruff
- Anti-acne
- Pet care
- Deodorant Spray
- Preservative

PACKAGING & SHELF LIFE

Available packaging
1kg/bag, 25kg/drum

Shelf life
24 months under proper storage conditions