

ANTI DANDRUFF AGENT Product Bulletin

KROMACTIVE PO

INCI Name: PIROCTONE OLAMINE

Description

Kromactive PO is a very effective antidandruff agent suitable for the manufacture of various hair-care products (especially clear shampoo). Outstanding features include low toxicity, low irritation, excellent efficacy, good pH/thermal stability, solubility in surfactants system and compatibility with other ingredients. Approved for both rinse-off & leave-on products. The product is manufactured by a proprietary process to achieve a very low level of nitrosamines (NDELA).

Typical properties (not intended as product specification)

Appearance	White to off-white crystalline powder
Identification	Conforms
Melting point	133-136°C
Odor	Very slight characteristic odor
Loss on drying	0.30% max.
pH (1% solution)	8,5-10,0
Sulfated ash	0.20% max.
Content of monoethanolamine	20.1-20.9% by potentiometry
Content of active ingredient	98.0% min. by potentiometry
Heavy metals	10ppm max.
Secondary amines	0.5% max.
Total N-nitrosamines (NNO)	50 ppb max.
N-nitrosodiethanolamine (NDELA)	10 ppb max.

Properties

- The concentrations used should be between 0.1 and 1.0 %, depending on the type of finished product.
- The concentration can be reduced even further for preparations that remain on the hair. In these cases a concentration between 0.05 and 0.1% is sufficient.
- Because of its solubility in surfactant solutions and alcohol-water mixture Kromactive PO is highly suitable for the manufacture of clear finished products.
- In case of hot manufacturing process avoid temperature above 80°C.
- The product is subject to the following limitation for its use in cosmetics (Annex V, EC1223/2009):
 - Maximum concentration in rinse-off products: 1%
 - Maximum concentration in other product: 0.5%

Applications

- Anti-dandruff shampoo
- Hair Products
- Deodorants

Formula Guidelines

Typically used at a level of:

- | | |
|-------------------------------|--------------|
| • Shampoo: | 0.3 – 1.0% |
| • Hair tonics | 0.05 – 0.1 % |
| • Hair conditioners | 0.1 – 0.3 % |
| • Setting lotions / hair gels | 0.05 – 0.2 % |
| • Hair creams | 0.1 – 0.3 % |
| • Deodorants | 0.1 – 0.3 % |

Storage & Handlings

Standard packing: 10 kg aluminium bag.

Storage: keep in a cool, dry, ventilated and lightless place.

Shelf life: 36 months.