

## Technical Data Sheet

### ZLEY®BIOCARE-OCT

#### Basic Information:

- INCI: Piroctone Olamine
- CAS No.: 68890-66-4
- Main component: 1-hydroxy-4-methyl-6(2,4,4-trimethylpentyl)2-pyridon monoethanolamine salt
- Suggested usage amount: 0.05%~1.0%
- Recommended usage way: Recommended for facial treatments, shampoos, hair treatments, soaps and other products.

#### Product Description:

Piroctone Olamine (P.O.) is safe, non-toxic, and non-irritating. At present, it is the only anti-dandruff and antipruritic agent that can be used in leave-in shampoos. P.O. has a broad-spectrum killing effect on fungi and mold, and has a good therapeutic effect on foot and hand ringworm. In addition, it is also a safe, mild and effective antiseptic approved by the European Union. It can eliminate dandruff caused by fungal infections, prevent the formation of new dandruff, keep the scalp clean and not itchy; it can also be used for treating acne-prone skin caused by propionibacterium acnes; meanwhile, it can effectively eliminate odors and reduce oil secretion on the skin. It also has broad-spectrum antibacterial and antifungal properties, and has a significant auxiliary thickening effect on the viscosity of surface-active systems, such as polyethers, etc. Therefore, PO is recommended for facial care, shampoo, hair care, soap and other products. It can be used as a preservative in cosmetics, as a fungicide in soap, and has thickening properties. In brief, P.O. is a multifunctional anti-dandruff and antipruritic bactericide, which is widely used in hair care products, bath lotions, cosmetics, and detergents.

#### Technical Indicators:

Inspection Items	Technical Index
Appearance	White crystalline powder
Odor	Characteristic odour
Solubleness	Water (0.10g+10mL): insoluble methanol(1.00 g + 10 ml) :dissolve
Ash content(SO <sub>4</sub> )	NMT 0.2%
Melting Point	130-135
pH Value	8.5-10.0
LOD	NMT 0.3%
Ethanolamine	20.0-21.0%
Heavy Metals	NMT 10ppm
Nitrosamines	NMT 50ppb
Purity (HPLC)	NLT 99.0%
Hexane (GC)	NMT 300ppm
Ethyl acetate (GC)	NMT5000ppm

E 1% (1 cm) dry weight at 317 nm	214-236
Size distribution	100 mesh(particle size mesh)

**Product Usage:**

- widely used in anti-dandruff shampoos, hair tonics, hair conditioners ,bath lotion, cosmetics, skin care products, and detergents etc.

**Packaging and Storage:**

- Packaging: Aluminum film bag (lined with polyethylene plastic bag); 1kg/bag.
- Storage: Please store it in a cool and dry place and the shelf life is 2 years.

**Disposal:**

Although this product has almost no pollution to the environment, it is best not to discard it together with domestic garbage. Please contact the local environmental protection department for dealing with the product and container and dispose according to the common chemical treatment method. Do not pour large quantities of products into the groundwater system.

**Transport Conditions**

Check whether the packaging container is complete and sealed, and keep it away from power supply, fire source and other parts during transportation. This product does not belong to hazardous goods or mixtures and can be transported according as general cargo.