

Technical Data Sheet

ZLEY®QUATERNIUM-73

Basic Information:

- INCI: QUATERNIUM-73
- CAS No.: 15763-48-1
- Main component: Thiazolium, 3-heptyl-2-((3-heptyl-4-methyl-4-thiazolin-2-ylidene)methyl)-4-methyl-, iodide
- Suggested usage amount: 0.001-0.05%
- Recommended usage way: It is recommended to use ethanol, butanediol or glutarediol for predissolution before adding it into formula.

Product Description:

It is commonly used in over-the-counter (OTC) drugs in Japan as an acne treatment ingredient. It has a strong antibacterial activity (Destroy bacterial fungal cell membrane, Propionibacterium acnes has excellent effect). It also can inhibit the production of melanin, Powerful but extremely safe, widely used for acne, whitening and freckle removal products.

Technical Indicators:

Inspection Items	Technical Index
Appearance	Yellowish to yellow crystalline powder
Water contents (KF)	NMT 1.0%
Purity (HPLC)	NLT 98.0%

Product Usage: Suitable for all kinds of skin care products, it is recommended for anti-acne and oil control skin care products, such as some Men's skin care products.

1. Acne inhibitors with antibacterial activity;
2. It can be used as a kind of preservative to kill bacteria, staphylococcus and Escherichia coli powerfully, better than Nipergin esters; In addition, it can inhibit the production of melanin.
3. Clinical studies have shown that the erythra can be reduced by 50% after two weeks of use on Bacillus acnes(mic=0.00002%); When the dosage was 0.1ppm, the production of melanin was completely inhibited, which was better than kojic acid.
4. High safety, good thermal stability, keep stable in the range of ph5.5 to 8.0; Low dosage and high cost-effective.

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.