

KOPHTHIONE 50%



ZINC PYRITHIONE 50%

- Anti-dandruff agent
- Anti-Fungal Agent



Kumar Organic Products Limited
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KOPHTHIONE (Zinc Pynthione)- An Anti-Dandruff Agent

Dandruff, the shedding of dead skin cells from the scalp at an excessive rate, is the result of metabolic byproducts of skin micro-organisms (fungus *Malassezia furfur* previously known as *Pityrosporum Ovale*). Dandruff is a common scalp disorder affecting almost half of the population at the age of 12 to 40 years and of any gender and ethnicity. With dandruff, the levels of *Malassezia* increase 1.5 to 2 times its normal level. *Malassezia* metabolizes triglycerides present in sebum by the expression of lipase, resulting in a lipid byproduct Oleic Acid (OA). Penetration by OA of the top layer of the epidermis, the stratum corneum, results in an inflammatory response in susceptible persons which disturbs homeostasis and results in erratic cleavage of the stratum corneum cells. As a result, dead skin cells are shed in large oily clumps, which appear as white or grayish patches on the scalp, skin and clothes. KOPHTHIONE (Zinc Pyrithione) has been used as an anti-dandruff agent for more than 60 years in concentrations up to 1-2%. It is effective against a wide variety of pathogenic bacteria. Its other applications include treatments of psoriasis, eczema, ringworm, fungus, athletes' foot, dry skin and atypical dermatitis.

Product Information:

Brand Name	Kophtione 50% FPS
INCI Name	Zinc pyrithione 50%
Chemical Name	1-Hydroxypyridine-2-thione Zinc salt (Suspension)
CAS No.	13463-41-7
Molecular Formula	C ₁₀ H ₈ N ₂ O ₂ S ₂ Zn
Appearance	White to off-white suspension

Regulation:

Approved as OTC in USA, Europe and Japan

Approved as active cosmetic ingredient in many Asian, African and south American countries

REACH: Pre-registration (Reference number: 05-2114092713-46-0000)

Mode of action:

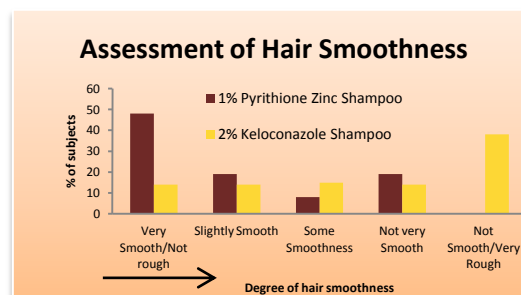
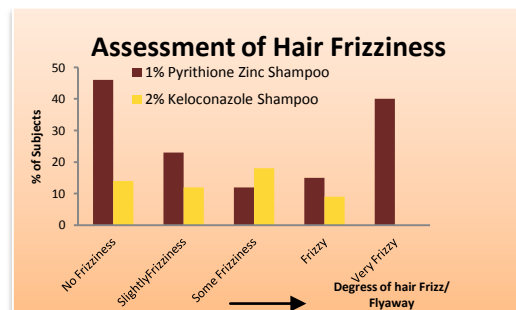
Its antifungal effect is thought to derive from its ability to disrupt membrane transport by blocking the proton pump that energizes the transport mechanism

Benefits

- It has fungistatic and bacteriostatic properties used in the treatment of seborrhoeic dermatitis
- Kophtione is approved for over-the-counter topical use in the United States as a treatment for dandruff
- It also has antibacterial properties and is effective against many pathogens from the *Streptococcus* and *Staphylococcus* genera
- Its other medical applications include treatments of psoriasis, eczema, ringworm, fungus, athletes foot, dry skin, atopic dermatitis, tinea, and vitiligo

Uses:

Shampoo, Conditioner, hair Tonic, Hair Styling gel, hair treatments



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Ingredients for Us

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