



HEXICOZOL SHAMPOO

Description and Composition

HEXICOZOL SHAMPOO is a light yellow to yellow viscous clear solution. Each ml contains 20mg Chlorhexidine digluconate and 20mg Miconazole nitrate as its active ingredients, 2.5mg Sodium benzoate and 5mg Phenoxyethanol as its preservatives.

Pharmacodynamics

Chlorhexidine digluconate:

Chlorhexidine digluconate is a Bisbiguanide antimicrobial agent against Gram-positive and Gram-negative bacteria. It is both bactericidal and bacteriostatic depending on the concentration used.

Growth inhibition is achieved by a direct effect on ATP-ase so interfering with the energy transport mechanisms. The bactericidal effect of chlorhexidine results from coagulation of the bacterial cell contents.

Miconazole nitrate:

Miconazole nitrate is an imidazole antifungal agent with activity against yeasts such as *Malassezia pachydermatis*.

It is both fungicidal and fungistatic depending on the concentration used. Miconazole inhibits ergosterol incorporation into cell membranes so increasing concentrations of cytotoxic hydrogen peroxide within the fungal cell wall.

Chlorhexidine and miconazole in combination:

In vitro studies have demonstrated synergistic activity against *Microsporum canis* between chlorhexidine and miconazole.

Pharmacokinetics

Chlorhexidine digluconate:

High concentrations of chlorhexidine digluconate are achieved in the hair coat and on the skin for the 10-minute period following shampooing. These concentrations are well in excess of the MICs for *Staphylococcus intermedius*. Chlorhexidine digluconate is poorly absorbed from the gastrointestinal tract on ingestion. There is little or no percutaneous absorption. In humans, it has been shown that 26% remains on the skin at 29 hours after application.

Miconazole nitrate:

High concentrations of miconazole nitrate are achieved in the hair coat and on the skin for the 10-minute period following shampooing. These concentrations are well in excess of the MICs for *Malassezia pachydermatis*.

Miconazole nitrate is poorly absorbed from the skin and gastrointestinal tract.

Indication

Dogs: For the treatment and control of seborrhoeic dermatitis associated with *Malassezia pachydermatis* and *Staphylococcus intermedius*.

Cats: As an aid in the treatment of ringworm due to *Microsporum canis*.

Recommended Dose

Dogs: Shampoo twice weekly until the symptoms subside and weekly thereafter or as necessary to keep the condition under control.

Cats: Shampoo twice weekly for a minimum period until coat brushings are negative for the culture of *M. canis*. The maximum length of the treatment period should not exceed 16 weeks. Depending on the length and type of the haircoat it should be considered whether it is necessary to clip the haircoat of the cat prior to treatment.

Wet the animal thoroughly with clean water and apply the product to the animal at several points and massage into the coat. Use a sufficient amount of the shampoo to raise a lather on the coat and skin. Ensure that the shampoo is applied around the lips, under the tail and between the toes. Allow the animal to stand for 10 minutes, then rinse off with clean water and leave to dry naturally in a warm, draught-free environment.

Route of Administration

For external use only.

Contraindications

Do not use in case of hypersensitivity to the active substances or to any of the excipients.

Warning and Precautions

Special warnings for each target species

Dogs and cats:

In order to prevent reoccurrence of the infection, appropriate control methods should be employed in the animal's environment (e.g. cleaning and disinfection of kennels, beds).

Cats:

Shampooing cats may initially increase the recovery of *M. canis* by brush culture techniques.

Special precautions for use

Official, national and regional antimicrobial policies should be taken into account when the product is used.

Special precautions for use in animals

For external use only.

In case of accidental contact with eyes, rinse with plenty of water.

Do not allow the animal to lick itself during shampooing and rinsing, or before it is dried. Take care to avoid the animal inhaling the product or getting it into the nose or mouth during shampooing.

Puppies and kittens should not come into contact with nursing females after treatment until the coat has dried.

Special precautions to be taken by the person administering the veterinary medicinal product to animals

- People with known hypersensitivity to chlorhexidine, miconazole or any of the excipients should avoid contact with the veterinary medicinal product.
- This product can cause eye irritation. Avoid contact with the eyes. In case of accidental contact with eyes, rinse with plenty of water. If irritation persists consult your doctor.
- Avoid excessive handling and stroking of treated animals immediately following treatment.
- Ringworm in the cat is infectious to humans and so it is advisable to wear gloves and have arms covered during clipping and shampooing of infected cats.
- When shampooing a cat, in order to avoid prolonged contact with the shampoo, wash and dry hands gently. Do not scrub.

Interactions with Other Medicaments

None known.

Pregnancy and Lactation

Please refer to section 'Warning and Precautions'.

Side Effects

Exceptionally a dog with atopy or a cat with allergic skin disease may develop a pruritic and/or erythematous reaction after treatment.

In very rare circumstances, dogs and cats may develop a skin reaction (itching, redness) after treatment.

Symptoms and Treatment of Overdose

Not applicable.

Storage Condition

Store below 30°C. Protect from light.

Shelf life

3 years.

Discard 3 months after first opening.

Packing

200ml, 500ml, 1L

Manufacturer & Product Registration Holder

Range Pharma Sdn Bhd

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