NEW ZEALAND DATA SHEET

Clomazol 2% Vaginal Cream
Clomazol 1% Vaginal Cream
Clomazol 1% Topical Cream

1. PRODUCT NAME
Clomazol 2% vaginal cream (3 day treatment)
Clomazol 1% vaginal cream (6 day treatment)
Clomazol 1% topical cream

2. QUALITATIVE AND QUANTITATIVE COMPOSITION
Clomazol Vaginal Cream 3 Day Treatment
Clomazol 2% vaginal cream contains 20 mg/g (2% w/w) of clotrimazole in a cream base.

Clomazol Vaginal Cream 6 Day Treatment
Clomazol 1% vaginal cream contains 10 mg/g (1% w/w) of clotrimazole in a cream base.

Clomazol Topical Cream
Clomazol 1% topical cream contains 10mg/g (1%) of clotrimazole in a cream base.

See section 6.1 for lists of excipients.

Clotrimazole
1-(o-chloro-α,α'-diphenylbenzyl) imidazole

\[ \text{C}_{22}\text{H}_{17}\text{ClN}_{2} \]
Molecular Weight 344.84

Clotrimazole is a colourless, crystalline, weakly alkaline substance, melting point 141°- 145°C, soluble in acetone, chloroform and ethanol and practically insoluble in water. It forms stable salts with both organic and inorganic acids. It is not photosensitive but is slightly hygroscopic, and may be hydrolysed in acid media.

3. PHARMACEUTICAL FORM
Clomazol 2% vaginal cream is presented as a white smooth semi-solid cream.

Clomazol 1% vaginal cream is presented as a white smooth semi-solid cream.

Clomazol 1% topical cream is presented as a white smooth semi-solid cream.
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4. CLINICAL PARTICULARS

4.1 Therapeutic indications
Clomazol 3 Day and 6 Day vaginal creams are indicated for the topical treatment of vulvovaginal candidiasis. Application of the cream to the glans penis of the partner may help prevent re-infection of the female.

Clomazol topical cream is indicated for the topical treatment of the following dermal infections:

1. Tinea pedis (athlete’s foot), tinea cruris (jock itch) and tinea corporis (ringworm of the trunk and limbs) due to *Trichophyton rubrum*, *Trichophyton mentagrophytes*, *Epidermophyton floccosum* and *Microsporum canis*.

2. Candidiasis due to *Candida albicans* including cutaneous candidiasis, onychia (infection of the nail or nail bed), paronychia (infection of the nail fold), external genital candidiasis, candida balanitis (Candida in the male genital area), nappy rash.

3. Pityriasis versicolor due to *Malassezia furfur*.

4. Erythrasma (a chronic skin infection due to the bacterium *Corynebacterium minutissimum*).

4.2 Dose and method of administration

**Clomazol vaginal cream 3 Day treatment (vaginal cream 2%)**
Once daily, preferably in the evening for three successive days, one applicator should be filled with cream (approx. 5 g) and inserted as deeply as possible into the vagina with the patient lying on her back. The 20 g tube of cream for vaginal use provides for three such doses.

**Clomazol vaginal cream 6 Day treatment (vaginal cream 1%)**
Once daily, preferably in the evening for six successive days, one applicator should be filled with cream (approx. 5 g) and inserted as deeply as possible into the vagina with the patient lying on her back. The 35 g tube of cream for vaginal use provides for six such doses.

**Generally:**
If symptoms persist for more than 7 days or do not improve within 4 days, the patient may have a medical condition that requires treatment by a doctor.

The treatment can be repeated if necessary, however recurrent infections may indicate an underlying medical cause, including diabetes or HIV infection. Patients should seek medical advice if symptoms return within 2 months or they have had 3 or more infections within 6 months.

If the labia and adjacent areas are simultaneously infected, local treatment with an external cream should also be given in addition to the intravaginal treatment (combination treatment). The sexual partner should also undergo local treatment if symptoms e.g. pruritis, inflammation, etc. are present.

Treatment during the menstrual period should not be performed. The treatment should be finished before the onset of menstruation.
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Do not use tampons, intravaginal douches, spermicides or other vaginal products while using this product.

Avoidance of vaginal intercourse is recommended in case of vaginal infection and while using this product as the partner could become infected.

Clotrimazole vaginal products are intended for use by adults aged 18 – 60 years, unless use is advised by a doctor.

Paediatric Population
Clotrimazole vaginal products are intended for use by adults aged 18 – 60 years. There are no data available for paediatric use.

Clomazol Topical Cream
Apply sparingly to the affected areas and rub in gently, two or three times daily.

Duration of treatment
The following recommendations are made:
- Cutaneous candidiasis 2 weeks
- Dermatomycoses 2-4 weeks
- Onychia and Paronychia due to C. albicans 4-8 weeks or more

Regular application of Clomazol topical cream is essential for successful treatment and, whether or not a cure is confirmed mycologically, treatment should be continued for two weeks after all clinical signs have disappeared.

Special remarks
Attention to hygiene is important in the management of fungal diseases of the feet. After washing, the feet - especially between the toes - should be dried thoroughly. Clotrimazole cream may be useful in mycotic paronychia or onychia following removal of the nail.

4.3 Contraindications
Hypersensitivity to the active substance, clotrimazole, or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use
If the patient has a fever (temperature of 38°C or above), lower abdominal pain, back pain, foul smelling vaginal discharge, nausea, vaginal haemorrhage and/or associated shoulder pain the patient should consult a doctor.

Generally: Keep the medicine out of reach of children. Avoid contact with eyes. Do not swallow.

Clotrimazole cream may reduce the effectiveness and safety of latex products such as condoms and diaphragms when applied to the genital area (women: intravaginally, labia and adjacent area of the vulva; men: prepuce and glans of the penis).

Clomazol creams contain cetostearyl alcohol: Cetostearyl alcohol may cause local skin reactions (e.g. contact dermatitis).
4.5 Interaction with other medicines and other forms of interaction
Concomitant medication with vaginal clotrimazole and oral tacrolimus (FK-506; immunosuppressant) might lead to increased tacrolimus plasma levels, and similarly with sirolimus. Patients should thus be thoroughly monitored for symptoms of tacrolimus or sirolimus overdosage, if necessary by determination of the respective plasma levels.

4.6 Fertility, pregnancy and lactation

Fertility
No human studies of the effects of clotrimazole on fertility have been performed, however animal studies have not demonstrated any effects of the medicine on fertility.

Pregnancy (Category A)
Data from the use of clotrimazole in pregnant women is limited. Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity (see section 5.3). As a precautionary measure, it is preferable to avoid the use of clotrimazole during the first trimester of pregnancy.

Lactation
Available pharmacodynamic/toxicological data in animals have shown excretion of clotrimazole/metabolites in milk (see section 5.3). Breast-feeding should be discontinued during treatment with clotrimazole.

4.7 Effects on ability to drive and use machines
The medication has no or negligible influence on the ability to drive or use machinery.

4.8 Undesirable effects
The following adverse reactions have been identified during post-approval use of clotrimazole. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency.

Immune System Disorders
Allergic reaction (syncope, hypotension, dyspnoea, urticaria).

Reproductive System and Breast Disorders
Genital peeling, pruritis, rash, oedema, erythema, discomfort, burning, irritation, pelvic pain, vaginal haemorrhage.

Gastrointestinal Disorders
Abdominal pain.

Reporting of suspected adverse reactions
Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Healthcare professionals are asked to report any suspected adverse reactions https://nzphvc.otago.ac.nz/reporting/

4.9 Overdose
No risk of acute intoxication is seen as it is unlikely to occur following a single vaginal or dermal application of an overdose (application over a large area under conditions favourable to absorption) or inadvertent oral ingestion. There is no specific antidote.
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For advice on the management of overdose please contact the National Poisons Centre on 0800 POISON (0800 764766).

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic Group
Antifungals for topical use – imidazole and triazole derivatives.
ATC Code: D01A C01

Mechanism of Action
Clotrimazole acts against fungi by inhibiting ergosterol synthesis. Inhibition of ergosterol synthesis leads to structural and functional impairment of the fungal cytoplasmic membrane.

Clotrimazole has a broad antimycotic spectrum of action in vitro and in vivo, which includes dermatophytes, yeasts, moulds, etc.

Under appropriate test conditions, the MIC values for these types of fungi are in the region of less than 0.062 – 8.0 μg/mL substrate.

The mode of action of clotrimazole is primarily fungistatic or fungicidal depending on the concentration of clotrimazole at the site of infection. In vitro activity is limited to proliferating fungal elements; fungal spores are only slightly sensitive.

In addition to its antimycotic action, clotrimazole also acts on gram-positive micro-organisms (Streptococci / Staphylococci / Gardnerella vaginalis) and gram-negative micro-organisms (Bacteroides).

In vitro clotrimazole inhibits the multiplication of Corynebacteria and gram-positive cocc (with the exception of Enterococci) in concentrations of 0.5 – 10 μg/mL substrate.

Primarily resistant variants of sensitive fungal species are very rare; the development of secondary resistance by sensitive fungi has so far only been observed in very isolated cases under therapeutic conditions.

5.2 Pharmacokinetic properties

Pharmacokinetic investigations after vaginal application have shown that only a small amount of clotrimazole (3 – 10%) is absorbed. Due to the rapid hepatic metabolisation of absorbed clotrimazole into pharmacologically inactive metabolites the resulting peak plasma concentrations of clotrimazole after vaginal application of a 500 mg dose were less than 10 ng/mL, suggesting that clotrimazole applied intravaginally is unlikely to lead to measurable systemic effects or side effects.

5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential and toxicity to reproduction and development.
The local and systemic tolerance of clotrimazole in different dosage forms was assessed in intravaginal studies in dogs and monkeys and in subacute dermal studies in rabbits. There was no evidence of treatment-related local or systemic adverse effects in any of these studies.

The oral toxicity of clotrimazole has been well-studied.

Following a single oral administration, clotrimazole was slight-to-moderately toxic in experimental animals, with LD50 values of 761 to 923 mg/kg bw for mice, 95 to 114 mg/kg bw for new born rats and 114 to 718 mg/kg bw for adult rats, > 1000 mg/kg bw for rabbits and > 2000 mg/kg bw for dogs and cats.

In repeated dose oral studies conducted in rats and dogs, the liver was found to be the primary target organ for toxicity. This was evidenced by an increase in serum transaminase activities and the appearance of liver vacuolation and fatty deposits starting at 50 mg/kg in the chronic (78-week) rat study and at 100 mg/kg in the subchronic (13-week) dog study.

Clotrimazole has been extensively studied in in vitro and in vivo mutagenecity assays, and no evidence of mutagenic potential was found. A 78-week oral dosing study of clotrimazole in rats did not show any carcinogenic effect.

In a rat fertility study, groups of FB30 rats received oral doses of clotrimazole up to 50 mg/kg bw for 10 weeks prior to mating and either throughout a 3-week mating period (for males only) or, for females, until day 13 of gestation or 4-week postpartum. Neonatal survival was reduced in the 50 mg/kg bw group. Clotrimazole at doses up to 25 mg/kg bw did not impair the development of the pups. Clotrimazole at all doses did not affect fertility.

No teratogenicity effects were demonstrated in studies in mice, rabbits and rats, given oral doses of up to 200, 180 and 100 mg/kg respectively.

A study with 3 lactating rats administered 30 mg/kg clotrimazole intravenously showed that the medicine was secreted into milk at levels higher than in plasma by a factor of 10 to 20 at 4 hours after administration, followed by a decline to a factor of 0.4 by 24 hours.

Given the limited absorption of clotrimazole after vaginal application (estimated to be 3% - 10%) no hazard is expected from the use of vaginal clotrimazole.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Clomazol 2% Vaginal Cream

- Benzyl alcohol
- Cetomacrogol 1000
- Cetostearyl alcohol
- Dimeticone
- Disodium edetate
- Glyceryl monostearate
- Liquid paraffin
- Propylene glycol
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- Purified water
- White soft paraffin

Clomazol 1% Vaginal Cream

- Benzyl alcohol
- Cetomacrogol 1000
- Cetostearyl alcohol
- Dimeticone
- Disodium edetate dihydrate
- Glyceryl monostearate
- Liquid paraffin
- Propylene glycol
- Purified water
- White soft paraffin

Clomazol 1% Topical Cream

- Benzyl alcohol
- Cetomacrogol 1000
- Cetostearyl alcohol
- Dimeticone
- Disodium edetate dihydrate
- Glyceryl monostearate
- Liquid paraffin
- Propylene glycol
- Purified water
- White soft paraffin

6.2 Incompatibilities
None known.

6.3 Shelf life
36 months from the date of manufacture stored at or below 25°C

6.4 Special precautions for storage
Store at or below 25°C

Keep the medicine out of reach of children.

6.5 Nature and contents of container
Clomazol 2% Vaginal Cream
One tube containing 20 g of vaginal cream, 20 mg clotrimazole per gram (2% w/w) packed with three single-use disposable applicators and patient instruction sheet.

Clomazol 1% Vaginal Cream
One tube containing 35 g of cream, 10 mg clotrimazole per gram (1% w/w) packed with six single-use disposable applicators and patient instruction sheet.
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Clomazol Topical Cream
Two pack sizes, tubes containing 20 g or 50 g of cream, 10 mg clotrimazole per gram (1% w/w).

6.6 Special precautions for disposal <and other handling>
Medicines should not be disposed of via wastewater or household waste. Ask a pharmacist how to dispose of medicines no longer required. These measures will help to protect the environment.

7. MEDICINE SCHEDULE
Pharmacist only medicines
Clomazol vaginal creams (2% and 1%)

Pharmacy Medicines
Clomazol topical cream

8. SPONSOR
Multichem NZ Ltd
8 Apollo Drive,
Rosedale 0632
Auckland, New Zealand

9. DATE OF FIRST APPROVAL
Clomazol 2% vaginal cream- 19/6/2008
Clomazol 1% vaginal cream- 2/10/2003
Clomazol 1% topical cream- 2/10/2003

10. DATE OF REVISION OF THE TEXT
4/4/2018

SUMMARY TABLE OF CHANGES

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