**PRODUCT NAME**
DAKTACORT® (20 mg miconazole nitrate and 10 mg hydrocortisone) cream.

**DOSAGE FORMS AND STRENGTHS**
Each gram contains 20 mg miconazole nitrate and 10 mg hydrocortisone.
Cream for topical application to the skin.
For excipients, see List of Excipients.

**CLINICAL INFORMATION**

**Indications**
- Infections of the skin by dermatophytes or Candida spp., in which inflammatory symptoms are prominent.
- Thus DAKTACORT® is particularly indicated for the initial stages of treatment. Once the inflammatory symptoms have disappeared treatment may be continued with miconazole nitrate 20 mg/g topical cream, if preferred. In view of DAKTACORT®’s antibacterial effect on gram-positive bacteria, the product may also be used for mycotic infections with bacterial superinfection.

**Dosage and Administration**
DAKTACORT® should be applied topically to the lesion once to twice daily. DAKTACORT® cream should be rubbed in gently until it has been completely penetrated into the skin. The treatment with DAKTACORT® (or subsequently with miconazole nitrate 20 mg/g topical cream) should be continued without interruption until the lesion has completely disappeared (usually after 2 to 5 weeks).

**Special populations**

**Pediatrics**
In infants and children, caution is advised when DAKTACORT® is applied to extensive surface areas or under occlusive dressings including baby nappies (diapers). In infants, long term continuous topical corticosteroid therapy should be avoided (see Warnings and Precautions).

**Elderly**
Natural thinning of the skin occurs in the elderly, hence corticosteroids should be used sparingly and for short periods of time.

**Contraindications**
Known hypersensitivity to miconazole, hydrocortisone or another ingredient of DAKTACORT®. Tuberculous skin infections, herpes simplex, vaccinia, all forms of varicella.

**Warnings and Precautions**
If a reaction suggesting sensitivity or irritation should occur, the treatment should be discontinued. DAKTACORT® must not come into contact with the mucosa of the eyes.

As with any topical corticosteroid, caution is advised with infants and children when DAKTACORT® is to be applied to extensive surface areas or under occlusive dressings including baby nappies (diapers). Similarly application to the face should be avoided.

In infants, long-term continuous topical corticosteroid therapy should be avoided. Adrenal suppression can occur even without occlusion.

Because of its corticosteroid content avoid long-term treatment with DAKTACORT®. Once the inflammatory symptoms have disappeared treatment may be continued with miconazole nitrate 20 mg/g cream. (See Indications)

DAKTACORT® can damage certain synthetic materials. Therefore, it is recommended to wear cotton underwear if this clothing comes into contact with the affected area.

Severe hypersensitivity reactions, including anaphylaxis and angioedema, have been reported during treatment with miconazole topical formulations.

If a reaction suggesting hypersensitivity or irritation should occur, the treatment should be discontinued.

Contact should be avoided between latex products such as contraceptive diaphragms or condoms and DAKTACORT® since the constituents of DAKTACORT® may damage the latex.

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Interactions
Miconazole administered systemically is known to inhibit CYP3A4/2C9. Due to the limited systemic availability after topical application (see Pharmacokinetic Properties), clinically relevant interactions occur very rarely. In patients on oral anticoagulants, such as warfarin, caution should be exercised and the anticoagulant effect should be monitored. The side effects of some other drugs (e.g., certain oral hypoglycemics and phenytoin), when co-administered with miconazole, can be increased and caution should be exercised.

Miconazole is a CYP3A4 inhibitor that can decrease the rate of metabolism of hydrocortisone. Serum concentrations of hydrocortisone may be higher with the use of DAKTACORT® compared with topical preparations containing hydrocortisone alone.

Pregnancy and Breast-feeding
Caution is recommended during pregnancy. Treatment of large surfaces and the application under occlusive dressing should be avoided during that time.

Miconazole has not been observed to be teratogenic in animals but has been shown to be embryotoxic at maternal toxic doses. Corticosteroids are known to cross the placenta and consequently can affect the fetus. (See Non-clinical Information.)

There are no adequate and well-controlled studies on the topical administration of DAKTACORT® during lactation. It is not known whether topical administration of DAKTACORT® to the skin could result in sufficient systemic absorption to produce detectable quantities of hydrocortisone and miconazole in breast milk in humans. Caution is recommended during lactation. Treatment of large surfaces and the application under occlusive dressing should be avoided during that time.

Effects on Ability to Drive and Use Machines
Not applicable.

Adverse Reactions
Throughout this section, adverse reactions are presented. Adverse reactions are adverse events that were considered to be reasonably associated with the use of miconazole nitrate and hydrocortisone based on the comprehensive assessment of the available adverse event information. A causal relationship with miconazole nitrate and hydrocortisone cannot be reliably established in individual cases. Further, because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Clinical Trial Data
The safety of DAKTACORT® Cream was evaluated in 480 patients who participated in 13 clinical trials (six double-blind and seven open-label trials) of DAKTACORT® Cream. These studies examined patients from 1 month to 95 years of age with infections of the skin caused by dermatophytes or Candida species in which inflammatory symptoms were prominent.

All Patients
No adverse drug reactions (ADRs) were reported by ≥1% of DAKTACORT® Cream-treated patients (adult and paediatric patients combined).

Adverse drug reactions reported by <1% of DAKTACORT® Cream-treated patients in the 13 clinical trials are shown in Table 1.

<table>
<thead>
<tr>
<th>System/Organ Class</th>
<th>Adverse Reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin and Subcutaneous Tissue Disorders</td>
<td>Skin irritation</td>
</tr>
<tr>
<td></td>
<td>Skin burning sensation</td>
</tr>
<tr>
<td>General Disorders and Administration Site Conditions</td>
<td>Irritability</td>
</tr>
</tbody>
</table>

Of the three ADRs identified from the 13 clinical trials of DAKTACORT® Cream, skin irritation was reported in one clinical trial that included patients aged 17 to 84 years, skin burning sensation in two clinical trials that included patients aged 13 to 84 years, and irritability in a clinical trial of infants aged 1 to 34 months.
Children
The safety of DAKTACORT® Cream was evaluated in 63 pediatric patients (1 month to 14 years of age) who were treated with DAKTACORT® Cream in 3 of the 13 clinical trials noted above.

Adverse drug reactions reported by paediatric patients treated with DAKTACORT® Cream in the 3 clinical trials are shown in Table 2.

<table>
<thead>
<tr>
<th>System/Organ Class Adverse Reaction</th>
<th>DAKTACORT® % (N=63)</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Disorders and Administration Site Conditions Irritability</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.2%</td>
</tr>
</tbody>
</table>

All events of irritability occurred in one clinical trial of infants (aged 1 to 34 months) with napkin dermatitis (diaper dermatitis).

Post-marketing experience
Adverse drug reactions first identified during post-marketing experience with DAKTACORT® are included in Table 3. In each table, the frequencies are provided according to the following convention:

- Very common: ≥1/10
- Common: ≥1/100 and <1/10
- Uncommon: ≥1/1,000 and <1/100
- Rare: ≥1/10,000 and <1/1,000
- Very rare: <1/10,000, including isolated reports

<table>
<thead>
<tr>
<th>Immune System Disorders</th>
<th>Very rare</th>
<th>Anaphylactic reaction, Hypersensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin and Subcutaneous Tissue Disorders</td>
<td>Very rare</td>
<td>Angioedema, Urticaria, Rash, Contact dermatitis, Pruritus, Erythema, Skin inflammation, Skin hypopigmentation, Application site reaction</td>
</tr>
</tbody>
</table>

Overdose
Symptoms and signs
Prolonged and excessive use can result in skin irritation, which usually disappears after discontinuation of therapy. Topically applied, corticosteroids can be absorbed in sufficient amounts to produce systemic effects.

PHARMACOLOGICAL PROPERTIES

Pharmacodynamic Properties
Pharmacotherapeutic group: Imidazole and triazole derivatives, combinations, ATC code: D01AC20.

Mechanism of action
Miconazole combines an antifungal activity against the common dermatophytes, yeasts and various other fungi with an antibacterial activity against certain gram-positive bacilli and cocci.

Miconazole inhibits the biosynthesis of ergosterol in fungi and changes the composition of other lipid components in the membrane, resulting in fungal cell necrosis.

Miconazole has also been proven to be effective in secondarily infected mycoses.

Hydrocortisone is an anti-inflammatory steroid. Its anti-inflammatory action is due to reduction in the vascular component of the inflammatory response, suppression of migration of polymorphonuclear leukocytes, and reversal of increased capillary permeability. The vasoconstrictor action of hydrocortisone may also contribute to its anti-inflammatory activity.

Miconazole in combination with hydrocortisone acts very rapidly on pruritus, which frequently accompanies dermatophyte and yeast infections. This symptomatic improvement is seen before the first signs of healing are observed. However, treatment with hydrocortisone is symptomatic and lesions may flare up again after a discontinuation of the treatment.

Pharmacodynamic effects

Microbiology
The clinical efficacy of miconazole has been demonstrated against: dermatophytes, Candida spp., Aspergillus spp., dimorphous fungi, Cryptococcus neoformans, Malassezia spp. and Torulopsis glabrata. Miconazole also has an antibacterial activity against some gram-positive bacilli and cocci.

Pharmacokinetic Properties

Absorption
Miconazole remains in the skin for up to 4 days after topical application. Systemic absorption of micon-
iazole is limited, with a bioavailability of less than 1% following topical application of miconazole. Plasma concentrations of miconazole and/or its metabolites were measurable 24 and 48 hours after application. Systemic absorption has also been demonstrated after repeated application of miconazole to infants with napkin dermatitis (diaper dermatitis). Plasma levels of miconazole were undetectable or low. Approximately 3% of the dose of hydrocortisone is absorbed after application on the skin.

**Distribution**
Absorbed miconazole is bound to plasma proteins (88.2%) and red blood cells (10.6%). More than 90% of hydrocortisone is bound to plasma proteins.

**Metabolism and Elimination**
The small amount of miconazole that is absorbed is eliminated predominantly in feces as both unchanged drug and metabolites over a four-day post-administration period. Smaller amounts of unchanged drug and metabolites also appear in urine.

The half-life of hydrocortisone is about 100 minutes. Metabolism takes place in the liver and tissues and the metabolites are excreted with the urine, mostly as glucuronides, together with a very small fraction of unchanged hydrocortisone.

**NON-CLINICAL INFORMATION**
Preclinical data on the drug product (miconazole nitrate + hydrocortisone) revealed no special hazard for humans based on conventional studies of ocular irritation, dermal sensitization, single dose oral toxicity, primary dermal irritation toxicity, and 21-day repeat dose dermal toxicity. Additional preclinical data on the individual active ingredients in this drug product reveal no special hazard for humans based on conventional studies of local irritation, single and repeated dose toxicity, genotoxicity, and for miconazole toxicity to reproduction. Reproductive effects and developmental abnormalities have been reported with hydrocortisone in various animal models.

**PHARMACEUTICAL INFORMATION**

**List of Excipients**
The cream formulation consists of benzoic acid, butylated hydroxyanisole, disodium edetate, glycol stearate, liquid paraffin, oleoyl macrogolglycerides, PEG-6 & PEG-32, and purified water.

**Incompatibilities**
Contact should be avoided between latex products such as contraceptive diaphragms or condoms and DAKTACORT® since the constituents of DAKTACORT® may damage the latex.

**Shelf Life**
See expiry date on the outer pack.

**Storage Conditions**
Store in a refrigerator (2-8°C). Keep out of the sight and reach of children.

**Nature and Contents of Container**
DAKTACORT® is supplied in tubes of 15 g, 30 g, and 60 g. Not all pack sizes are marketed.

**Instructions for Use and Handling**
To open the tube unscrew the cap. Then pierce the seal of the tube with the pin on the top of the cap.

**Instructions for Disposal**
Any unused product or waste material should be disposed of in accordance with local requirements.

**MANUFACTURED BY**
See outer carton.

**DATE OF REVISION OF THE TEXT**
21-November-2012