EXELDERM- sulconazole nitrate cream
Sun Pharmaceutical Industries, Inc.

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Exelderm® (sulconazole nitrate, USP)
Cream, 1.0%
For topical use only. Not for ophthalmic use.

DESCRIPTION

EXELDERM (sulconazole nitrate, USP) CREAM, 1.0% is a broad-spectrum antifungal agent intended for topical application. Sulconazole nitrate, USP the active ingredient in EXELDERM CREAM, is an imidazole derivative with \textit{in vitro} antifungal and antiyeast activity. Its chemical name is $(\pm)$-1-[2,4-Dichloro-β-[(p-chlorobenzyl)thio]phenethyl]imidazole mononitrate and it has the following chemical structure:

![Chemical Structure of Sulconazole Nitrate](image)

\[C_{18}H_{15}Cl_{3}N_{2}S\cdot\text{HNO}_{3}\]

Sulconazole nitrate, USP is a white to off-white crystalline powder with a molecular weight of 460.77. It is freely soluble in pyridine; slightly soluble in ethanol, acetone, and chloroform; and very slightly soluble in water. It has a melting point of about 130°C.

EXELDERM CREAM contains sulconazole nitrate, USP 10 mg/g in an emollient cream base consisting of propylene glycol, stearyl alcohol, isopropyl myristate, cetyl alcohol, polysorbate 60, sorbitan monostearate, glyceryl stearate (and) PEG-100 stearate, ascorbyl palmitate, and purified water, with sodium hydroxide and/or nitric acid added to adjust the pH.

CLINICAL PHARMACOLOGY

Sulconazole nitrate is an imidazole derivative with broad-spectrum antifungal activity that inhibits the growth \textit{in vitro} of the common pathogenic dermatophytes including \textit{Trichophyton rubrum}, \textit{Trichophyton mentagrophytes}, \textit{Epidermophyton floccosum} and \textit{Microsporum canis}. It also inhibits (\textit{in vitro}) the organism responsible for tinea versicolor, \textit{Malassezia furfur}. Sulconazole nitrate has been shown to be active \textit{in vitro} against the following microorganisms, although clinical efficacy has not been established: \textit{Candida albicans} and certain gram positive bacteria.

A modified Draize test showed no allergic contact dermatitis and a phototoxicity study showed no phototoxic or photoallergic reaction to sulconazole nitrate cream. Maximization tests with sulconazole nitrate cream showed no evidence of contact sensitization or irritation.

INDICATIONS AND USAGE

EXELDERM (sulconazole nitrate, USP) CREAM, 1.0% is an antifungal agent indicated for the treatment
of tinea pedis (athlete’s foot), tinea cruris, and tinea corporis caused by *Trichophyton rubrum*,
*Trichophyton mentagrophytes, Epidermophyton floccosum,* and *Microsporum canis,* and for the treatment
of tinea versicolor.

**CONTRAINDICATIONS**

EXELDERM (sulconazole nitrate, USP) CREAM, 1.0% is contraindicated in patients who have a
history of hypersensitivity to any of its ingredients.

**PRECAUTIONS**

**General**

EXELDERM (sulconazole nitrate, USP) CREAM, 1.0% is for external use only. Avoid contact with the
eyes. If irritation develops, the cream should be discontinued and appropriate therapy instituted.

**Information for Patients**

Patients should be told to use EXELDERM CREAM as directed by the physician, to use it externally
only, and to avoid contact with the eyes.

**Carcinogenesis, Mutagenesis and Impairment of Fertility**

Long-term animal studies to determine carcinogenic potential have not been performed. *In vitro* studies
have shown no mutagenic activity.

**Pregnancy**

There are no adequate and well controlled studies in pregnant women. Sulconazole nitrate should be
used during pregnancy only if clearly needed. Sulconazole nitrate has been shown to be embryotoxic in
rats when given in doses of 125 times the adult human dose (in mg/kg). The drug was not teratogenic in
rats or rabbits at oral doses of 50 mg/kg/day.

Sulconazole nitrate given orally to rats at a dose 125 times the human dose resulted in prolonged
gestation and dystocia. Several females died during the prenatal period, most likely due to labor
complications.

**Nursing Mothers**

It is not known whether sulconazole nitrate is excreted in human milk. Caution should be exercised when
sulconazole nitrate is administered to a nursing woman.

**Pediatric Use**

Safety and effectiveness in children have not been established.

* Efficacy for this organism in the organ system was studied in fewer than ten infections.

**Geriatric Use**

Clinical studies of EXELDERM CREAM, 1.0%, did not include sufficient numbers of patients aged 65
years and over to determine whether they respond differently than younger patients. Other reported
clinical experience has not identified differences in responses between elderly and younger patients.

**ADVERSE REACTIONS**

There were no systemic effects and only infrequent cutaneous adverse reactions in 1185 patients treated
with sulconazole nitrate cream in controlled clinical trials. Approximately 3% of these patients reported
itching, 3% burning or stinging, and 1% redness. These complaints did not usually interfere with treatment.

CLINICAL STUDIES
In a vehicle-controlled study for the treatment of tinea pedis (moccasin type) due to *T. rubrum*, after 4-6 weeks of treatment 69% of patients on the active drug and 19% of patients on the drug vehicle had become KOH and culture negative. In addition, 68% of patients on the active drug and 20% of patients on the drug vehicle showed a good or excellent clinical response.

DOSAGE AND ADMINISTRATION
A small amount of cream should be gently massaged into the affected and surrounding skin areas once or twice daily, except in tinea pedis, where administration should be twice daily.

Early relief of symptoms is experienced by the majority of patients and clinical improvement may be seen fairly soon after treatment is begun; however, tinea corporis/cruris and tinea versicolor should be treated for 3 weeks and tinea pedis for 4 weeks to reduce the possibility of recurrence.

If significant clinical improvement is not seen after 4 to 6 weeks of treatment, an alternate diagnosis should be considered.

HOW SUPPLIED
EXELDERM (sulconazole nitrate, USP) CREAM, 1.0% is a smooth glossy white to off-white cream having slight characteristic odor. It is supplied as follows:

- 15 g tube - NDC 10631-101-15
- 30 g tube - NDC 10631-101-30
- 60 g tube - NDC 10631-101-60

Avoid excessive heat, above 40°C (104°F).

To report SUSPECTED ADVERSE REACTIONS, contact the FDA at 1-800-FDA-1088 www.fda.gov/medwatch.

Manufactured by:
DPT Laboratories Inc.
San Antonio, TX 78215

Distributed by:
Sun Pharmaceutical Industries, Inc.
Cranbury, NJ 08512

Revised May 2018

Exelderm Cream 15 g Carton
Exelderm Cream 30g Tube
Exelderm Cream 60g Tube
Exelderm Cream 60g Carton
EXELDERM
sulconazole nitrate cream

Product Information

Product Type: HUMAN PRESCRIPTION DRUG

Route of Administration: TOPICAL

Item Code (Source): NDC:10631-101

Active Ingredient/Active Moiety

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<tr>
<td>SULCONAZOLE NITRATE (UNII: 1T89100D5U) (SULCONAZOLE - UNII:5D9HAA5Q5S)</td>
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Inactive Ingredients

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### Marketing Information

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### Labeler - Sun Pharmaceutical Industries, Inc. (146974886)

### Establishment

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<td>Contract Pharmaceuticals Limited</td>
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Revised: 6/2018

Sun Pharmaceutical Industries, Inc.