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For the use of a Registered Medical Practitioner or a Hospital or a Laboratory.

DICLOMAX POWER GEL

(Diclofenac Diethylamine Gel with Capsaicin, Methyl Salicylate and Menthol)



mposition clomax Power Gel contains : Diclofenac Diethylamine B.P. equivalent to Diclofenac sodium 1 % w/w 0.025% w/w Capsaicin U.S.P. Menthol I.P. 5% w/w Methyl Salicylate I.P. Benzyl Alcohol I.P. (as preservative)

Pharmacodynamic properties

Diclomax Power Gel is an analgesic, anti-inflammatory preparation for topical application. Its active substances

Dictornax Power Gen is an analysis, anti-minalimatory preparation for topical application. Its active solusiness include dictorace diethylamine, capsaicin, methyl salicylate and menthol. The white opaque gel is applied to the skin. The properties of the combination of all four active ingredients in Dictomax Power Gel have not been evaluated directly in clinical efficacy studies. Dictoferac has been shown in experiments to inhibit prostaglandin biosynthesis; and this is regarded as an important factor in its mechanism of action.

Capsaicin gels and creams (in concentrations ranging from 0.025% - 0.075%) have been used as topical analgesics in painful conditions such as post-herpetic neuralgia after the lesions have healed, diabetic neuropathy, osteoarthritis and rheumatoid arthritis. The mechanism of analgesic effect of capsaicin is believed to result from stimulation of the release of substance P from local sensory. C-type nerve fibres and subsequent deneltion of substance P from the release of substance P from local sensory C-type nerve fibres and subsequent depletion of substance P from the release of substance P from local sensory C-type nerve hibres and subsequent depletion of substance P from the entire neuron, reducing the transmission of pain impulses to the CNS. Capsaicin is not considered to be a traditional counter-irritant, because it does not rely on vasodilation in the skin for its mechanism of action, but it has been included in various rubefacient preparations for the relieve of muscular and rheumatic pain. Local application may result in a transient warm, burning or stinging sensation corresponding to transient excitation of the pain fibres, followed by hypoalgesia due to inactivation of the pain fibres. Methyl salicylate is a salicylic acid derivative that is irritant to the skin and is used topically as a counter-irritant in rubefacient preparations for the relief of pain in musculoskeletal, joint and soft tissue disorders. Like other salicylates, methyl salicylate may be absorbed through musculoskeletal, joint and soft tissue disorders. Like other salicylates, methyl salicylate may be absorbed through intact skin. A study evaluating other commercial formulations containing 20% methyl salicylate indicated that the methyl salicylate is extensively metabolized to salicylic acid in the dermal and subcutaneous tissues following topical administration. Menthol is a common counter-irritant in various topical analgesic preparations. When applied to the skin, menthol dilates the blood vessels, causing a sensation of coldness followed by an analgesic effect. Benzyl Alcohol is a preservative in various topical analgesic preparations.

Pharmacokinetic properties

Absorption

The amount of diclofenac absorbed through the skin is proportional to the contact time and skin area covered with Diciofenac sodium gel, and depends on the total topical dose and on skin hydration. About 6% of the active substances is absorbed after topical application of 2.5 g Diciofenac sodium gel per 500 cm², as determined by reference to total renal elimination compared with diciofenac sodium tablets. Absorption of diciofenac increases threefold if an occlusive dressing is applied for 10 hours.

The absorption of capsaicin after topical application is unknown.

Methyl salicylate is speedily absorbed when applied cutaneously. Percutaneous absorption of methyl salicylate is enhanced by exercise, heat occlusion, or disruption of integrity of the skin.

Both the rate and extent of absorption increase after repeated application.

Menthol is known to be well absorbed after topical application.

Diclofenac can be detected in plasma, synovial tissue, and synovial fluid after topical application of diclofenac sodium gel to the wrists and knees. Peak plasma concentrations of diclofenac are about 100 times lower after topical application of diclofenac sodium gel than after oral administration of diclofenac sodium tablets. 99.7% of diclofenac before the properties of the plant of the plan binds to serum proteins, mainly to albumin (99.4%).

The distribution of capsaicin after topical application is unknown.

50-80% of salicylic acid binds to serum proteins.

Menthol
The distribution of menthol after topical application is unknown.

Biotransformation of diclofenac takes place partly by glucuronidation of the intact molecule, but mainly by single or multiple hydroxylation resulting in several phenolic metabolites, most of which are converted to glucuronide conjugates. Two of these phenolic metabolites are biologically active, but to a much lesser extent than diclofenac.

Capsaicin seems to be metabolized by cytochrome P450

Methyl salicylate is extensively metabolized to salicylic acid in the dermal and subcutaneous tissues following topical

etabolism of menthol after topical application is unknown

Total systemic clearance of diclofenac from the plasma is 263 ± 56 mL/min (mean value \pm standard deviation). The erminal plasma half life is 1-2 hours. Four of the metabolites, including the two active metabolites, also have a short plasma half-life (1-3 hours). One metabolite, 3'-hydroxyl-4-methoxy-diclofenac, has a much longer half-life, but the

Capsaicin The elimination of capsaicin after topical application is unl

Salicylic acid and its principal metabolites are excreted in the urine

After absorption, menthol is excreted in the urine and bile as a glucuronide

inter assorption, mention is extreme in the unite and one as a gloculoritie. interfect in special clinical situations lo accumulation of diclofenac and its metabolites is expected in patients with renal impairment. In patients with hronic hepatitis or non-decompensated liver cirrhosis, the kinetics and metabolism of diclofenac are the same as in

- Localized forms of soft-tissue rheumatism, e.g. tendovaginitis, shoulder-hand syndrome, bursitis and periarthropathy.

Localized freumatic diseases, e.g., osteoarthritis of the peripheral joints and vertebral column.

Post –traumatic inflammation of the tendons, ligaments, muscles, and joints e.g., due to sprains, strains, or bruises

Diclomax Power Gel is applied locally 3-4 times daily to the skin and rubbed in gently. Depending on the size of the painful area to be treated, 2-4 g Diclomax Power Gel is sufficient to treat an area of about 400-800 cm². An occlusive dressing should not be used. The hands should be washed after application of the gel, unless the hands are the treated areas, in which case, they should be washed 30 minutes after application. Heating pads should not be used with Diclomax Power Gel, and patients should avoid taking a hot bath or shower immediately before or after application as the burning sensation may be exacerbated. The duration of treatment should not be longer than one

Skin Tolerability testing

The skin tolerability of diclofenac diethylamine gel with capsaicin, methyl salicylate and menthol has been tested in

althy human volunteers. Generally the topical application is well tolerated without major untoward effects

Contamination of the Hypersensitivity to diclofenac, acetylsalicylic acid, and other non-steroidal anti-inflammatory agents, to capsaicin, menthol, benzyl alcohol and to isopropanol or propylene glycol. Diclomax Power Gel is contraindicated in patients in whom attacks of asthma, urticaria, or acute arthritis are precipitated by salicylic acid or other non-steroidal anti-

Diclomax Power Gel should be applied only to intact skin, and not be broken or irritated skin or open wounds. The preparation should not come into contact with the eyes or mucous membranes. It should be used with care on the extremities of patients with impaired peripheral circulation or diabetes. The gel should not be used before phototherapy

Pregnancy and lactation

For Diclomax Power Gel no clinical data on exposed pregnancies are available. Animal studies are insufficient with regulations are available. Affilial studies are instituted and are exposed pregnations are available. Affilial studies are institutional peptide to effects on pregnancy/and-or/embryonal/foetal development/and-or/parturition/and-or/postnat velopment. The potential risk for humans is unknown. Diclomax Power Gel should not be used during pregnan less clearly necessary.

Measurable quantities of the active substance should not be seen in the breast milk. However no experience is

available with Diclomax Power Gel in breast-feeding women Undesirable effects

ery common: a warm, stinging, or burning sensation may be experienced at the site of application. Allergic or non-

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Pantone Reflex Blue C

allergic contact dermatitis (with symptoms and signs such as itching, reddening of the skin or scaling).

Common: Moderate allergic and non-allergic contact dermatitis such as erythema, oedema, papules, vesicles and

solated cases; generalized rash; hypersensitivity reactions (e.g. asthma attack, angioedema); photosensitivity

Although likelihood of systemic reactions occurring during topical treatment with diclofenac is small compared with the frequency of side effects seen during oral administration, the possibility of developing other diclofenac adverse reactions cannot be completed ruled out. Since methyl salicylate is absorbed through the skin, symptoms of salicylate intoxication can occur following topical application of methyl salicylate.

Interactions No interactions have been reported to date with topical diclofenac diethylamine. Potentiation of warfarin

gulation has been reported with topical application of methyl salicylate preparation

Significant systemic reactions resulting from improper use or accidental over dosage should be treated with the usual measure employed to manage poisoning with non steroidal anti-inflammatory drugs.

Store at a temperature not exceeding 25°C. Do not freeze. Protect from light.

For external use only.
WARNING: "NOT FOR VETERINARY USE"

Keep all Medicines out of reach of children

Expiry Date:
Do not use later than the date of expiry.

Packages:
Diclomax Power Gel is available in tubes of 30 g.



Manufactured by : TORRENT PHARMACEUTICALS LTD. Indrad-382 721, Dist. Mehsana, INDIA.

Diclomax Power Gel Patient Information

Diclofenac Diethylamine Gel with Capsaicin, Methyl Salicylate and Menthol

This Leaflet is designed to give you some important information on Diclomax Power Gel. It is not meant to replace your doctor's advice or instructions. What you need to know and remember before using Diclomax Power Gel

Your doctor has prescribed this gel to rub on the intact skin for relieving pain and reducing swelling of the present painful conditions affecting joints and muscles. It is not to be taken orally. Please read the leaflet carefully to familiarize yourself with the usage of Diclomax Power Gel. However, it does not contain complete information about the medicine; so, you must consult your

Inform your doctor if you previously had any allergic reaction after taking any medicines to treat painful conditions affecting joints and muscles. Inform your doctor if you have skin sensitive to

oil of wintergreen (methyl salicylate). Inform your doctor if you are pregnant or you are pregnant or you are pregnant or you are pregnant or you are planning to become pregnant. Dictomax Power Gel is not recommended for use during Pregnancy.

When using Diclomax Power Gel

Use the gel as per your doctor's instructions

- A small quantity of the gel should be rubbed well on the intact skin around the painful or swollen area, until little or no residue is left on the surface. Usually a blob equivalent to the size of a 50 paise to a 1 rupee coin should suffice; the quantity however, would vary depending on the size of the affected area, which should not be large. Do not cover applied areas with bandages
- Apply 3-4 times a day or as directed by your doctor, A slight warmth or cooling effect on rubbing may be anticipated.
- Do not apply the gel on cuts, open wounds or irritated, diseased skin areas.

 Be careful not to apply the gel on or near the eyes, nose, mouth, genital or anal areas. If the gel does come in contact with any of these areas, rinse with plenty of clean water.
- Avoid taking a hot bath or shower immediately before or after application.

 Please contact your Doctor in case you experience any skin irritation at the site of application.

After using Diclomax Power Gel

- Wash your hands after application of the gel, unless the hands are the treated areas, in which case, they should be washed 30 minutes after application
- Do not use heating pads.
- Store the tube in a place protected from heat after properly recapping it
- The tube must be kept out of the reach of children
 Usually the gel does not cause any problems. Occasionally skin irritation, itching, reddening, smarting of the skin to sunlight may occur. Very rarely, allergic reactions have been reported. In such cases or if the medicine upsets you in any way or you do not get the desired relief, please consult your doctor.
- If your symptoms do not improve after 2 weeks or they get worse, please consult your doctor.
- If you experience any of the following symptoms, stop using Diclomax Power Gel and tell your doctor IMMEDIATELY:
- Widespread skin rash
- Wheezing, shortness of breath or swelling of face

Your doctor has prescribed Diclomax Power Gel for you. Do not give it to others, as it may be unsuitable for them even if they have the same symptoms as you. A doctor must be consulted before using any medicine. Diclomax Power Gel has not been studied in children. Do not use after the date marked " Exp. Date" on the pack.

Further information is available from

TORRENT PHARMACEUTICALS LTD

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