

# CAPSFENAC PAK- diclofenac sodium and capsaicin SA3, LLC

## HIGHLIGHTS OF PRESCRIBING INFORMATION

### Diclofenac Sodium Topical Solution, 1.5% (w/w)

These highlights do not include all the information needed to use DICLOFENAC SODIUM TOPICAL SOLUTION safely and effectively. See full prescribing information for DICLOFENAC SODIUM TOPICAL SOLUTION.

### DICLOFENAC SODIUM topical solution.

Initial U.S. Approval: 1988

## RECENT MAJOR CHANGES

Boxed Warning 5/2016

Warnings and Precautions, Cardiovascular Thrombotic Events (5.1) 5/2016

Warnings and Precautions, Heart Failure and Edema (5.5) 5/2016

## INDICATIONS AND USAGE

Diclofenac Sodium topical solution, 1.5% w/w is a nonsteroidal anti-inflammatory drug indicated for the treatment of signs and symptoms of osteoarthritis of the knee(s). (1)

## DOSAGE AND ADMINISTRATION

- Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals.
- The recommended dose is 40 drops on each painful knee, 4 times a day. (2)
- Apply Diclofenac Sodium topical solution, 1.5% w/w to clean, dry skin. (2.1)
- Dispense Diclofenac Sodium topical solution, 1.5% w/w 10 drops at a time either directly onto the knee or first into the hand and then onto the knee. Spread Diclofenac Sodium topical solution, 1.5% w/w evenly around front, back and sides of the knee. Repeat this procedure until 40 drops have been applied and the knee is completely covered with solution. (2.1)
- Wash hands completely after administering the product.
- Wait until the area is completely dry before covering with clothing or applying sunscreen, insect repellent, cosmetics, topical medications, or other substances.
- Until the treated knee(s) is completely dry, avoid skin-to-skin contact between other people and the treated knee(s). (2.2)
- Do not get Diclofenac Sodium topical solution, 1.5% w/w in your eyes, nose or mouth (2.2).

## DOSAGE FORMS AND STRENGTHS

- Diclofenac Sodium topical solution 1.5% w/w (3)

## CONTRAINDICATIONS

- Known hypersensitivity to diclofenac or any components of the drug product. (4)
- History of asthma, urticaria, or allergic-type reactions after taking aspirin or other NSAIDs. (4)
- In the setting of CABG surgery (4)

## WARNINGS AND PRECAUTIONS

- **Hepatotoxicity:** Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver disease develop (5.3)
- **Hypertension:** Patients taking some antihypertensive medications may have impaired response to these therapies when taking NSAIDs. Monitor blood pressure (5.4, 7)
- **Heart Failure and Edema:** Avoid use of Diclofenac Sodium topical solution, 1.5% w/w in patients with severe heart failure unless benefits are expected to outweigh risk of worsening heart failure (5.5)
- **Renal Toxicity:** Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia. Avoid use of Diclofenac Sodium topical solution, 1.5% w/w in patients with advanced renal disease unless benefits are expected to outweigh risk of worsening renal function (5.6)
- **Anaphylactic Reactions:** Seek emergency help if an anaphylactic reaction occurs (5.7)
- **Exacerbation of Asthma Related to Aspirin Sensitivity:** Diclofenac Sodium topical solution, 1.5% w/w is contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity) (5.8)
- **Serious Skin Reactions:** Discontinue Diclofenac Sodium topical solution, 1.5% w/w at first appearance of skin rash or other signs of hypersensitivity (5.9)
- **Premature Closure of Fetal Ductus Arteriosus:** Avoid use in pregnant women starting at 30 weeks gestation (5.10, 8.1)
- **Hematologic Toxicity:** Monitor hemoglobin or hematocrit in patients with any signs or symptoms of anemia (5.11, 7)

- Exposure to light: Avoid exposure of treated knee(s) to natural or artificial sunlight. (5.14)
- Eye Contact: Avoid contact of Diclofenac Sodium topical solution, 1.5% w/w with eyes and mucosa. (5.15)
- Oral Nonsteroidal Anti-inflammatory Drugs: Avoid concurrent use with oral NSAIDs. (5.16)

#### ----- ADVERSE REACTIONS -----

Most common adverse reactions with Diclofenac Sodium topical solution, 1.5% w/w are application site reactions. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Ingenus Pharmaceuticals, LLC at 1-877-748-1970 or FDA at 1-800-FDA-1088 or WWW.FDA.GOV/MEDWATCH.**

#### ----- DRUG INTERACTIONS -----

- Drugs that Interfere with Hemostasis (e.g. warfarin, aspirin, SSRIs/SNRIs): Monitor patients for bleeding who are concomitantly using Diclofenac Sodium topical solution, 1.5% w/w with drugs that interfere with hemostasis. Concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and analgesic doses of aspirin is not generally recommended (7)
- ACE Inhibitors, Angiotensin Receptor Blockers (ARB), or Beta-Blockers: Concomitant use with Diclofenac Sodium topical solution, 1.5% w/w may diminish the antihypertensive effect of these drugs. Monitor blood pressure (7)
- ACE Inhibitors and ARBs: Concomitant use with Diclofenac Sodium topical solution, 1.5% w/w in elderly, volume depleted, or those with renal impairment may result in deterioration of renal function. In such high risk patients, monitor for signs of worsening renal function (7)
- Diuretics: NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor patients to assure diuretic efficacy including antihypertensive effects (7)
- Digoxin: Concomitant use with Diclofenac Sodium topical solution, 1.5% w/w can increase serum concentration and prolong half-life of digoxin. Monitor serum digoxin levels (7)

#### ----- USE IN SPECIFIC POPULATIONS -----

- Pregnancy: Use of NSAIDs during the third trimester of pregnancy increases the risk of premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs in pregnant women starting at 30 weeks gestation (5.10, 8.1)
- Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of Diclofenac Sodium topical solution, 1.5% w/w in women who have difficulties conceiving (8.3)

#### ----- INDICATIONS AND USAGE -----

Diclofenac Sodium topical solution, 1.5% w/w is a nonsteroidal anti-inflammatory drug indicated for the treatment of signs and symptoms of osteoarthritis of the knee(s). (1)

#### ----- DOSAGE AND ADMINISTRATION -----

- Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals.
- The recommended dose is 40 drops on each painful knee, 4 times a day. (2)
- Apply Diclofenac Sodium topical solution, 1.5% w/w to clean, dry skin. (2.1)
- Dispense Diclofenac Sodium topical solution, 1.5% w/w 10 drops at a time either directly onto the knee or first into the hand and then onto the knee. Spread Diclofenac Sodium topical solution, 1.5% w/w evenly around front, back and sides of the knee. Repeat this procedure until 40 drops have been applied and the knee is completely covered with solution. (2.1)
- Wash hands completely after administering the product.
- Wait until the area is completely dry before covering with clothing or applying sunscreen, insect repellent, cosmetics, topical medications, or other substances.
- Until the treated knee(s) is completely dry, avoid skin-to-skin contact between other people and the treated knee(s). (2.2)
- Do not get Diclofenac Sodium topical solution, 1.5% w/w in your eyes, nose or mouth (2.2).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 12/2018

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**Do not use**

**When using this product**

**Stop use and ask a doctor if**

**Keep out of reach of children.**

\* Sections or subsections omitted from the full prescribing information are not listed.

## **1. INDICATIONS AND USAGE**

Diclofenac Sodium topical solution, 1.5% w/w is indicated for the treatment of signs and symptoms of osteoarthritis of the knee(s) (1).

## **2. DOSAGE AND ADMINISTRATION**

### **2.1 General Dosing Instructions**

Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals [see *WARNING AND PRECAUTIONS (5.2)*]

For the relief of the signs and symptoms of osteoarthritis of the knee(s), the recommended dose is 40 drops per knee, 4 times a day. Apply Diclofenac Sodium topical solution, 1.5% w/w to clean, dry skin.

To avoid spillage, dispense Diclofenac Sodium topical solution, 1.5% w/w 10 drops at a time either directly onto the knee or first into the hand and then onto the knee. Spread Diclofenac Sodium topical solution, 1.5% w/w evenly around front, back and sides of the knee. Repeat this procedure until 40 drops have been applied and the knee is completely covered with solution.

To treat the other knee, if symptomatic, repeat the procedure.

Application of Diclofenac Sodium topical solution, 1.5% w/w in an amount exceeding or less than the recommended dose has not been studied and is therefore not recommended.

### **2.2 Special Precautions**

- Avoid showering/bathing for at least 30 minutes after the application of Diclofenac Sodium topical solution, 1.5% w/w to the treated knee.
- Wash and dry hands after use.
- Do not apply Diclofenac Sodium topical solution, 1.5% w/w to open wounds.
- Avoid contact of Diclofenac Sodium topical solution, 1.5% w/w with eyes and mucous membranes.
- Do not apply external heat and/or occlusive dressings to treated knees.
- Avoid wearing clothing over the Diclofenac Sodium topical solution, 1.5% w/w-treated knee(s) until the treated knee is dry.
- Protect the treated knee(s) from natural or artificial sunlight.
- Wait until the treated area is dry before applying sunscreen, insect repellent, lotion, moisturizer, cosmetics, or other topical medication to the same knee you have just treated with Diclofenac Sodium topical solution, 1.5% w/w.
- Until the treated knee(s) is completely dry, avoid skin-to-skin contact between other people and the treated knee(s).
- Do not use combination therapy with Diclofenac Sodium topical solution, 1.5% w/w and an oral NSAID unless the benefit outweighs the risk and conduct periodic laboratory evaluations.

## **3. DOSAGE FORMS AND STRENGTHS**

Diclofenac Sodium topical solution: 1.5% w/w

## **4. CONTRAINDICATIONS**

Diclofenac Sodium topical solution, 1.5% w/w is contraindicated in the following patients:

- Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to diclofenac or any components of the drug product. [see *WARNINGS AND PRECAUTIONS (5.7, 5.9)*].
- History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs. Severe, sometimes fatal, anaphylactic reactions to NSAIDs have been reported in such patients [see *WARNINGS AND PRECAUTIONS (5.7, 5.8)*].

- In the setting of coronary artery bypass graft (CABG) surgery [see *WARNINGS AND PRECAUTIONS (5.1)*].

## **5. WARNINGS AND PRECAUTIONS**

### **5.1 Cardiovascular Thrombotic Events**

Clinical trials of several COX-2 selective and nonselective NSAIDs of up to three years duration have shown an increased risk of serious cardiovascular (CV) thrombotic events, including myocardial infarction (MI) and stroke, which can be fatal. Based on available data, it is unclear that the risk for CV thrombotic events is similar for all NSAIDs. The relative increase in serious CV thrombotic events over baseline conferred by NSAID use appears to be similar in those with and without known CV disease or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased baseline rate. Some observational studies found that this increased risk of serious CV thrombotic events began as early as the first weeks of treatment. The increase in CV thrombotic risk has been observed most consistently at higher doses.

To minimize the potential risk for an adverse CV event in NSAID-treated patients, use the lowest effective dose for the shortest duration possible. Physicians and patients should remain alert for the development of such events, throughout the entire treatment course, even in the absence of previous CV symptoms. Patients should be informed about the symptoms of serious CV events and the steps to take if they occur.

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious CV thrombotic events associated with NSAID use. The concurrent use of aspirin and an NSAID, such as diclofenac, increases the risk of serious gastrointestinal (GI) events [see *WARNINGS AND PRECAUTIONS (5.2)*].

#### **Status Post Coronary Artery Bypass Graft (CABG) Surgery**

Two large, controlled, clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 10 - 14 days following CABG surgery found an increased incidence of myocardial infarction and stroke [see *CONTRAINDICATIONS (4)*].

#### **Post-MI Patients**

Observational studies conducted in the Danish National Registry have demonstrated that patients treated with NSAIDs in the post-MI period were at increased risk of reinfarction, CV-related death, and all-cause mortality beginning in the first week of treatment. In this same cohort, the incidence of death in the first year post-MI was 20 per 100 person years in NSAID-treated patients compared to 12 per 100 person years in non-NSAID exposed patients. Although the absolute rate of death declined somewhat after the first year post-MI, the increased relative risk of death in NSAID users persisted over at least the next four years of follow-up.

Avoid the use of Diclofenac Sodium topical solution, 1.5% w/w in patients with a recent MI unless the benefits are expected to outweigh the risk of recurrent CV thrombotic events. If Diclofenac Sodium topical solution, 1.5% w/w is used in patients with a recent MI, monitor patients for signs of cardiac ischemia.

### **5.2 Gastrointestinal Bleeding, Ulceration, and Perforation**

NSAIDs, including diclofenac, cause serious gastrointestinal (GI) adverse events including inflammation, bleeding, ulceration, and perforation of the esophagus, stomach, small intestine, or large intestine, which can be fatal. These serious adverse events can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding, or perforation caused by NSAIDs occurred in approximately 1% of patients treated for 3 - 6 months, and in

about 2 %- 4% of patients treated for one year. However, even short-term NSAID therapy is not without risk.

#### Risk Factors for GI Bleeding, Ulceration, and Perforation

Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater than 10-fold increased risk for developing a GI bleed compared to patients without these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants, or selective serotonin reuptake inhibitors (SSRIs); smoking; use of alcohol; older age; and poor general health status. Most postmarketing reports of fatal GI events occurred in elderly or debilitated patients. Additionally, patients with advanced liver disease and/or coagulopathy are at increased risk for GI bleeding.

#### Strategies to Minimize the GI Risks in NSAID-treated patients:

- Use the lowest effective dosage for the shortest possible duration.
- Avoid administration of more than one NSAID at a time.
- Avoid use in patients at higher risk unless benefits are expected to outweigh the increased risk of bleeding. For such patients, as well as those with active GI bleeding, consider alternate therapies other than NSAIDs.
- Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy.
- If a serious GI adverse event is suspected, promptly initiate evaluation and treatment, and discontinue Diclofenac Sodium topical solution, 1.5% w/w until a serious GI adverse event is ruled out.
- In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more closely for evidence of GI bleeding [see DRUG INTERACTIONS (7)].

### **5.3 Hepatotoxicity**

In clinical trials, of oral diclofenac-containing products, meaningful elevations (i.e., more than 3 times the ULN) of AST (SGOT) were observed in about 2% of approximately 5,700 patients at some time during diclofenac treatment (ALT was not measured in all studies).

In a large, open-label, controlled trial of 3,700 patients treated with oral diclofenac for 2-6 months, patients were monitored first at 8 weeks and 1,200 patients were monitored again at 24 weeks. Meaningful elevations of ALT and/or AST occurred in about 4% of 3,700 patients and included marked elevations (greater than 8 times the ULN) in about 1% of the 3,700 patients. In that open-label study, a higher incidence of borderline (less than 3 times the ULN), moderate (3-8 times the ULN), and marked (greater than 8 times the ULN) elevations of ALT or AST was observed in patients receiving diclofenac when compared to other NSAIDs. Elevations in transaminases were seen more frequently in patients with osteoarthritis than in those with rheumatoid arthritis.

Almost all meaningful elevations in transaminases were detected before patients became symptomatic. Abnormal tests occurred during the first 2 months of therapy with diclofenac in 42 of the 51 patients in all trials who developed marked transaminase elevations.

In postmarketing reports, cases of drug-induced hepatotoxicity have been reported in the first month, and in some cases, the first 2 months of therapy, but can occur at any time during treatment with diclofenac. Postmarketing surveillance has reported cases of severe hepatic reactions, including liver necrosis, jaundice, fulminant hepatitis with and without jaundice, and liver failure. Some of these reported cases resulted in fatalities or liver transplantation.

In a European retrospective population-based, case-controlled study, 10 cases of diclofenac associated drug-induced liver injury with current use compared with non-use of diclofenac were associated with a statistically significant 4-fold adjusted odds ratio of liver injury. In this particular study, based on an overall number of 10 cases of liver injury associated with diclofenac, the adjusted odds ratio increased further with female gender, doses of 150 mg or more, and duration of use for more than 90 days.

Physicians should measure transaminases at baseline and periodically in patients receiving long-term

therapy with diclofenac, because severe hepatotoxicity may develop without a prodrome of distinguishing symptoms. The optimum times for making the first and subsequent transaminase measurements are not known. Based on clinical trial data and postmarketing experiences, transaminases should be monitored within 4 to 8 weeks after initiating treatment with diclofenac. However, severe hepatic reactions can occur at any time during treatment with diclofenac.

If abnormal liver tests persist or worsen, if clinical signs and/or symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, abdominal pain, diarrhea, dark urine, etc.), Diclofenac Sodium topical solution, 1.5% w/w should be discontinued immediately.

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue Diclofenac Sodium topical solution, 1.5% w/w immediately, and perform a clinical evaluation of the patient.

To minimize the potential risk for an adverse liver-related event in patients treated with Diclofenac Sodium topical solution, 1.5% w/w, use the lowest effective dose for the shortest duration possible. Exercise caution when prescribing Diclofenac Sodium topical solution, 1.5% w/w with concomitant drugs that are known to be potentially hepatotoxic (e.g., acetaminophen, antibiotics, antiepileptics).

#### **5.4 Hypertension**

NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, can lead to new onset of hypertension, or worsening of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Patients taking angiotensin converting enzyme (ACE) inhibitors, thiazide diuretics, or loop diuretics may have impaired response to these therapies when taking NSAIDs [*see DRUG INTERACTIONS (7)*].

Monitor blood pressure (BP) closely during the initiation of NSAID treatment and throughout the course of therapy.

#### **5.5 Heart Failure and Edema**

The Coxib and traditional NSAID Trialists' Collaboration meta-analysis of randomized controlled trials demonstrated an approximately two-fold increase in hospitalizations for heart failure in COX-2 selective-treated patients and nonselective NSAID-treated patients compared to placebo-treated patients. In a Danish National Registry study of patients with heart failure, NSAID use increased the risk of MI, hospitalization for heart failure, and death.

Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs. Use of diclofenac may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., diuretics, ACE inhibitors, or angiotensin receptor blockers [ARBs]) [*see DRUG INTERACTIONS (7)*].

Avoid the use of Diclofenac Sodium topical solution, 1.5% w/w in patients with severe heart failure unless the benefits are expected to outweigh the risk of worsening heart failure. If Diclofenac Sodium topical solution, 1.5% w/w is used in patients with severe heart failure, monitor patients for signs of worsening heart failure.

#### **5.6 Renal Toxicity and Hyperkalemia**

##### Renal Toxicity

Long-term administration of NSAIDs has resulted in renal papillary necrosis and other renal injury.

Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired

renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors or ARBs, and the elderly. Discontinuation of NSAID therapy was usually followed by recovery to the pretreatment state.

No information is available from controlled clinical studies regarding the use of Diclofenac Sodium topical solution, 1.5% w/w in patients with advanced renal disease. The renal effects of Diclofenac Sodium topical solution, 1.5% w/w may hasten the progression of renal dysfunction in patients with preexisting renal disease.

Correct volume status in dehydrated or hypovolemic patients prior to initiating Diclofenac Sodium topical solution, 1.5% w/w. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia during use of Diclofenac Sodium topical solution, 1.5% w/w [see *DRUG INTERACTIONS (7)*]. Avoid the use of Diclofenac Sodium topical solution, 1.5% w/w in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function. If Diclofenac Sodium topical solution, 1.5% w/w is used in patients with advanced renal disease, monitor patients for signs of worsening renal function.

### Hyperkalemia

Increases in serum potassium concentration, including hyperkalemia, have been reported with use of NSAIDs, even in some patients without renal impairment. In patients with normal renal function, these effects have been attributed to a hyporeninemic-hypoaldosteronism state.

## **5.7 Anaphylactic Reactions**

Diclofenac has been associated with anaphylactic reactions in patients with and without known hypersensitivity to diclofenac and in patients with aspirin-sensitive asthma [see *CONTRAINDICATIONS (4)* and *WARNINGS AND PRECAUTIONS (5.8)*].

Seek emergency help if an anaphylactic reaction occurs.

## **5.8 Exacerbation of Asthma Related to Aspirin Sensitivity**

A subpopulation of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis complicated by nasal polyps; severe, potentially fatal bronchospasm; and/or intolerance to aspirin and other NSAIDs. Because cross-reactivity between aspirin and other NSAIDs has been reported in such aspirin-sensitive patients, Diclofenac Sodium topical solution, 1.5% w/w is contraindicated in patients with this form of aspirin sensitivity [see *CONTRAINDICATIONS (4)*]. When Diclofenac Sodium topical solution, 1.5% w/w is used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

## **5.9 Serious Skin Reactions**

NSAIDs, including diclofenac, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions, and to discontinue the use of Diclofenac Sodium topical solution, 1.5% w/w at the first appearance of skin rash or any other sign of hypersensitivity. Diclofenac Sodium topical solution, 1.5% w/w is contraindicated in patients with previous serious skin reactions to NSAIDs [see *CONTRAINDICATIONS (4)*].

Do not apply Diclofenac Sodium topical solution, 1.5% w/w to open skin wounds, infections, inflammations, or exfoliative dermatitis, as it may affect absorption and tolerability of the drug.

## **5.10 Premature Closure of Fetal Ductus Arteriosus**

Diclofenac may cause premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, in pregnant women starting at 30 weeks of gestation (third trimester) [see *USE IN SPECIFIC POPULATIONS (8.1)*].



### **5.11 Hematologic Toxicity**

Anemia has occurred in NSAID-treated patients. This may be due to occult or gross blood loss, fluid retention, or an incompletely described effect on erythropoiesis. If a patient treated with Diclofenac Sodium topical solution, 1.5% w/w has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.

NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, may increase the risk of bleeding events. Co-morbid conditions such as coagulation disorders, concomitant use of warfarin, other anticoagulants, antiplatelet agents (e.g., aspirin), serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) may increase this risk. Monitor these patients for signs of bleeding [see *DRUG INTERACTIONS (7)*].

The effects of Diclofenac Sodium topical solution, 1.5% w/w on platelet function were studied in 10 healthy subjects administered 80 drops four times a day for 7 days. There was no significant change in platelet aggregation following one week of treatment [see *CLINICAL PHARMACOLOGY (12.4)*].

### **5.12 Masking of Inflammation and Fever**

The pharmacological activity of Diclofenac Sodium topical solution, 1.5% w/w in reducing inflammation, and possibly fever, may diminish the utility of diagnostic signs in detecting infections.

### **5.13 Laboratory Monitoring**

Because serious GI bleeding, hepatotoxicity, and renal injury can occur without warning symptoms or signs, consider monitoring patients on long-term NSAID treatment with a CBC and a chemistry profile periodically [see *WARNINGS AND PRECAUTIONS (5.2, 5.3, 5.6)*].

### **5.14 Sun Exposure**

Instruct patients to avoid exposure to natural or artificial sunlight on treated knee(s) because studies in animals indicated topical diclofenac treatment resulted in an earlier onset of ultraviolet light-induced skin tumors. The potential effects of Diclofenac Sodium topical solution, 1.5% w/w on skin response to ultraviolet damage in humans are not known.

### **5.15 Eye Exposure**

Avoid contact of Diclofenac Sodium topical solution, 1.5% w/w with eyes and mucosa. Advise patients that if eye contact occurs, immediately wash out the eye with water or saline and consult a physician if irritation persists for more than an hour.

### **5.16 Oral Nonsteroidal Anti-Inflammatory Drugs**

Concomitant use of oral NSAIDs with Diclofenac Sodium topical solution, 1.5% w/w resulted in a higher rate of rectal hemorrhage, more frequent abnormal creatinine, urea and hemoglobin. Therefore, do not use combination therapy with Diclofenac Sodium topical solution, 1.5% w/w and an oral NSAID unless the benefit outweighs the risk and conduct periodic laboratory evaluations.

## **6. ADVERSE REACTIONS**

The following adverse reactions are discussed in greater detail in other sections of the labeling:

- Cardiovascular Thrombotic Events [see *WARNINGS AND PRECAUTIONS (5.1)*]
- GI Bleeding, Ulceration and Perforation [see *WARNINGS AND PRECAUTIONS (5.2)*]
- Hepatotoxicity [see *WARNINGS AND PRECAUTIONS (5.3)*]
- Hypertension [see *WARNINGS AND PRECAUTIONS (5.4)*]
- Heart Failure and Edema [see *WARNINGS AND PRECAUTIONS (5.5)*]
- Renal Toxicity and Hyperkalemia [see *WARNINGS AND PRECAUTIONS (5.6)*]
- Anaphylactic Reactions [see *WARNINGS AND PRECAUTIONS (5.7)*]

- Serious Skin Reactions [see WARNINGS AND PRECAUTIONS (5.9)]
- Hematologic Toxicity [see WARNINGS AND PRECAUTIONS (5.11)]

## 6.1 Clinical Trials Experience

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 practice.

The data described below reflect exposure to Diclofenac Sodium topical solution, 1.5% w/w of 911 patients treated between 4 and 12 weeks (mean duration of 49 days) in seven Phase 3 controlled trials, as well as exposure of 793 patients treated in an open-label study, including 463 patients treated for at least 6 months, and 144 patients treated for at least 12 months. The population mean age was approximately 60 years, 89% of patients were Caucasians, 64% were females, and all patients had primary osteoarthritis. The most common adverse events with Diclofenac Sodium topical solution, 1.5% w/w were application site skin reactions. These events were the most common reason for withdrawing from the studies.

### Application Site Reactions

In controlled trials, the most common treatment-related adverse events in patients receiving Diclofenac Sodium topical solution, 1.5% w/w were application site skin reactions. Application site reactions were characterized by one or more of the following: dryness, erythema, induration, vesicles, paresthesia, pruritus, vasodilation, acne, and urticaria. The most frequent of these reactions were dry skin (32%), contact dermatitis characterized by skin erythema and induration (9%), contact dermatitis with vesicles (2%) and pruritus (4%). In one controlled trial, a higher rate of contact dermatitis with vesicles (4%) was observed after treatment of 152 subjects with the combination of Diclofenac Sodium topical solution, 1.5% w/w and oral diclofenac. In the open label uncontrolled long-term safety study, contact dermatitis occurred in 13% and contact dermatitis with vesicles in 10% of patients, generally within the first 6 months of exposure, leading to a withdrawal rate for an application site event of 14%.

### Adverse Events Common to the NSAID Class

In controlled trials, subjects treated with Diclofenac Sodium topical solution, 1.5% w/w experienced some adverse events associated with the NSAID class more frequently than subjects using placebo (constipation, diarrhea, dyspepsia, nausea, flatulence, abdominal pain, edema; see **Table 1**). The combination of Diclofenac Sodium topical solution, 1.5% w/w and oral diclofenac, compared to oral diclofenac alone, resulted in a higher rate of rectal hemorrhage (3% vs. less than 1%), and more frequent abnormal creatinine (12% vs. 7%), urea (20% vs. 12%), and hemoglobin (13% vs. 9%), but no difference in elevation of liver transaminases.

Table 1 lists all adverse reactions occurring in  $\geq 1\%$  of patients receiving Diclofenac Sodium topical solution, 1.5% w/w, where the rate in the Diclofenac Sodium topical solution, 1.5% w/w group exceeded placebo, from seven controlled studies conducted in patients with osteoarthritis. Since these trials were of different durations, these percentages do not capture cumulative rates of occurrence.

<b>Treatment Group:</b>	<b>Diclofenac Sodium topical solution, 1.5% w/w N=911</b>	<b>Topical Placebo N=332</b>
<b>Adverse Reaction†</b>	<b>N (%)</b>	<b>N (%)</b>
Dry Skin (Application Site)	292 (32)	17 (5)
Contact Dermatitis (Application Site)	83 (9)	6 (2)
Dyspepsia	72(8)	13 (4)
Abdominal Pain	54 (6)	10 (3)
Flatulence	35 (4)	1 (<1)
Pruritus (Application Site)	34 (4)	7 (2)
Diarrhea	33 (4)	7 (2)

Nausea	33 (4)	3 (1)
Pharyngitis	40 (4)	13 (4)
Constipation	29 (3)	1 (<1)
Edema	26 (3)	0
Rash (Non-Application Site)	25 (3)	5 (2)
Infection	25 (3)	8 (2)
Ecchymosis	19 (2)	1 (<1)
Dry Skin (Non-Application Site)	19 (2)	1 (<1)
Contact Dermatitis, vesicles (Application Site)	18 (2)	0
Paresthesia (Non-Application Site)	14 (2)	3 (<1)
Accidental Injury	22 (2)	7 (2)
Pruritus (Non-Application Site)	15 (2)	2 (<1)
Sinusitis	10 (1)	2 (<1)
Halitosis	11 (1)	1 (<1)
Application Site Reaction (not otherwise specified)	11 (1)	3 (<1)

Table 1: Adverse Reactions occurring in  $\geq 1\%$  of patients treated with Diclofenac Sodium topical solution, 1.5% w/w in placebo and oral diclofenac-controlled trials.

†Preferred Term according to COSTART

## 6.2 Postmarketing Experience

In non-U.S. postmarketing surveillance, the following adverse reactions have been reported during post-approval use of Diclofenac Sodium topical solution, 1.5% w/w. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

*Body as a Whole:* abdominal pain, accidental injury, allergic reaction, asthenia, back pain, body odor, chest pain, edema, face edema, halitosis, headache, lack of drug effect, neck rigidity, pain

*Cardiovascular:* palpitation, cardiovascular disorder

*Digestive:* diarrhea, dry mouth, dyspepsia, gastroenteritis, decreased appetite, mouth ulceration, nausea, rectal hemorrhage, ulcerative stomatitis

*Metabolic and Nutritional:* creatinine increased

*Musculoskeletal:* leg cramps, myalgia

*Nervous:* depression, dizziness, drowsiness, lethargy, paresthesia, paresthesia at application site

*Respiratory:* asthma, dyspnea, laryngismus, laryngitis, pharyngitis

*Skin and Appendages: At the Application Site:* contact dermatitis, contact dermatitis with vesicles, dry skin, pruritus, rash; *Other Skin and Appendages Adverse Reactions:* eczema, rash, pruritus, skin discoloration, urticaria

*Special Senses:* abnormal vision, blurred vision, cataract, ear pain, eye disorder, eye pain, taste perversion

## 7. DRUG INTERACTIONS

See Table 2 for clinically significant drug interactions with diclofenac.

### Drugs That Interfere with Hemostasis

**Clinical Impact:** Diclofenac and anticoagulants such as warfarin have a synergistic effect on bleeding. The concomitant use of diclofenac and anticoagulants have an increased risk of serious bleeding compared to the use of either drug alone. Serotonin release by platelets plays an important role in hemostasis. Case-control and cohort epidemiological studies showed that concomitant use of drugs that interfere with serotonin reuptake and an NSAID may potentiate the risk of bleeding more than an NSAID alone.

**Intervention:** Monitor patients with concomitant use of Diclofenac Sodium topical solution, 1.5% w/w with anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin), selective serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding [see WARNINGS AND PRECAUTIONS (5.11)]

### Aspirin

**Clinical Impact:** Controlled clinical studies showed that the concomitant use of NSAIDs and analgesic doses of aspirin does not produce any greater therapeutic effect than the use of NSAIDs alone. In a clinical study, the concomitant use of an NSAID and aspirin was associated with a significantly increased incidence of GI adverse reactions as compared to use of NSAID alone [see WARNINGS AND PRECAUTIONS (5.2)]

**Intervention:** Concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and analgesic doses of aspirin is not generally recommended because of the increased risk of bleeding [see WARNINGS AND PRECAUTIONS (5.11)].  
Diclofenac Sodium topical solution, 1.5% w/w is not a substitute for low dose aspirin for cardiovascular protection.

### ACE inhibitors, Angiotensin Receptor Blockers, and Beta-Blockers

**Clinical Impact:** NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE) inhibitors, angiotensin receptor blockers (ARBs), or betablockers (including propranolol). In patients who are elderly, volume-depleted (including those on diuretic therapy), or have renal impairment, co-administration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible.

**Intervention:** During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and ACE-inhibitors, ARBs, or betablockers, monitor blood pressure to ensure that the desired blood pressure is obtained. During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired renal function, monitor for signs of worsening renal function [see WARNINGS AND PRECAUTIONS (5.6)]  
When these drugs are administered concomitantly, patients should be adequately hydrated. Assess renal function at the beginning of the concomitant treatment and periodically thereafter.

### Diuretics

**Clinical Impact:** Clinical studies, as well as post-marketing observations, showed that NSAIDs reduced the natriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This effect has been attributed to the NSAID inhibition of renal prostaglandin synthesis.

**Intervention:** During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w with diuretics, observe patients for signs of worsening renal function, in addition to assuring diuretic efficacy including antihypertensive effects [see WARNINGS

*AND PRECAUTIONS (5.6)].*

**Digoxin**

*Clinical Impact:* The concomitant use of diclofenac with digoxin has been reported to increase the serum concentration and prolong the half-life digoxin.

*Intervention:* During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and digoxin, monitor serum digoxin levels.

**Lithium**

*Clinical Impact:* NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This effect has been attributed to NSAID inhibition of renal prostaglandin synthesis.

*Intervention:* During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and lithium, monitor patients for signs of lithium toxicity.

**Methotrexate**

*Clinical Impact:* Concomitant use of NSAIDs and methotrexate may increase the risk of methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction).

*Intervention:* During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and methotrexate, monitor patients for methotrexate toxicity.

**Cyclosporine**

*Clinical Impact:* Concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and cyclosporine may increase cyclosporine's nephrotoxicity.

*Intervention:* During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and cyclosporine, monitor patients for signs or worsening renal function.

**NSAIDs and Salicylates**

*Clinical Impact:* Concomitant use of diclofenac with other NSAIDs or salicylates (e.g., diflunisal, salsalate) increases the risk of GI toxicity, with little or no increase in efficacy [*see WARNINGS AND PRECAUTIONS (5.2)*].  
Concomitant use of oral NSAIDs with Diclofenac Sodium topical solution, 1.5% w/w has been evaluated in one Phase 3 controlled trial and in combination with oral diclofenac, compared to oral diclofenac alone, resulted in a higher rate of rectal hemorrhage (3% vs. less than 1%), and more frequent abnormal creatinine (12% vs. 7%), urea (20% vs. 12%) and hemoglobin (13% vs. 9%).

*Intervention:* The concomitant use of diclofenac with other NSAIDs or salicylates is not recommended.  
Do not use combination therapy with Diclofenac Sodium topical solution, 1.5% w/w and an oral NSAID unless the benefit outweighs the risk and conduct periodic laboratory evaluations

**Pemetrexed**

*Clinical Impact:* Concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).

*Intervention:* During concomitant use of Diclofenac Sodium topical solution, 1.5% w/w and pemetrexed, in patients with renal impairment whose creatinine clearance ranges from 45 to 79 mL/min, monitor for myelosuppression, renal and GI toxicity.

*Intervention:* NSAIDs with short elimination half-lives (e.g., diclofenac, indomethacin) should be avoided for a period of two days before, the day of, and two days following administration pemetrexed.

In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half-lives (e.g., meloxicam, nabumetone), patients taking

these NSAIDs should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration.
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Table 2: Clinically Significant Drug Interactions with Diclofenac

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## **8. USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

Pregnancy Category C prior to 30 weeks gestation; Category D starting 30 weeks gestation.

#### **Risk Summary**

Use of NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, during the third trimester of pregnancy increases the risk of premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, in pregnant women starting at 30 weeks of gestation (third trimester).

There are no adequate and well-controlled studies of Diclofenac Sodium topical solution, 1.5% w/w in pregnant women. Data from observational studies regarding potential embryofetal risks of NSAID use in women in the first or second trimesters of pregnancy are inconclusive. In the general U.S. population, all clinically recognized pregnancies, regardless of drug exposure, have a background rate of 2-4% for major malformations, and 15-20% for pregnancy loss. Published reproductive and developmental studies of dimethyl sulfoxide (DMSO, the solvent used in Diclofenac Sodium topical solution, 1.5% w/w) are equivocal as to potential teratogenicity. In animal reproduction studies, no evidence of teratogenicity was observed in mice, rats, or rabbits given diclofenac daily during the period of organogenesis at doses up to approximately 0.6, 0.6, and 1.3 times, respectively, the maximum recommended human dose (MRHD) of Diclofenac Sodium topical solution, 1.5% w/w, despite the presence of maternal and fetal toxicity at these doses [*see Data*]. Based on animal data, prostaglandins have been shown to have an important role in endometrial vascular permeability, blastocyst implantation, and decidualization. In animal studies, administration of prostaglandin synthesis inhibitors such as diclofenac, resulted in increased pre- and post-implantation loss.

#### **Clinical Considerations**

##### ***Labor or Delivery***

There are no studies on the effects of Diclofenac Sodium topical solution, 1.5% w/w during labor or delivery. In animal studies, NSAIDs, including diclofenac, inhibit prostaglandin synthesis, cause delayed parturition, and increase the incidence of stillbirth.

##### **Data**

##### ***Animal data***

Reproductive and developmental studies in animals demonstrated that diclofenac sodium administration during organogenesis did not produce teratogenicity despite the induction of maternal toxicity and fetal toxicity in mice at oral doses up to 20 mg/kg/day (approximately 0.6 times the maximum recommended human dose [MRHD] of Diclofenac Sodium topical solution, 1.5% w/w, 154 mg/day, based on body surface area (BSA) comparison), and in rats and rabbits at oral doses up to 10 mg/kg/day (approximately 0.6 and 1.3 times, respectively, the MRHD based on BSA comparison). Published reproductive and developmental studies of dimethyl sulfoxide (DMSO, the solvent used in Diclofenac Sodium topical solution, 1.5% w/w) are equivocal as to potential teratogenicity.

In rats, maternally toxic doses of diclofenac were associated with dystocia, prolonged gestation, reduced fetal weights and growth, and reduced fetal survival.

### **8.2 Lactation**

#### **Risk Summary**

Based on available data, diclofenac may be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for CATAFLAM and any

potential adverse effects on the breastfed infant from the CATAFLAM or from the underlying maternal condition.

#### Data

One woman treated orally with a diclofenac salt, 150 mg/day, had a milk diclofenac level of 100 mcg/L, equivalent to an infant dose of about 0.03 mg/kg/day. Diclofenac was not detectable in breast milk in 12 women using diclofenac (after either 100 mg/day orally for 7 days or a single 50 mg intramuscular dose administered in the immediate postpartum period).

### **8.3 Females and Males of Reproductive Potential**

#### Infertility

##### *Females*

Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, may delay or prevent rupture of ovarian follicles, which has been associated with reversible infertility in some women. Published animal studies have shown that administration prostaglandin synthesis inhibitors has the potential to disrupt prostaglandin-mediated follicular rupture required for ovulation. Small studies in women treated with NSAIDs have also shown a reversible delay in ovulation. Consider withdrawal of NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, in women who have difficulties conceiving or who are undergoing investigation of infertility.

### **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

### **8.5 Geriatric Use**

Elderly patients, compared to younger patients, are a greater risk for NSAID-associated serious cardiovascular, gastrointestinal, and/or renal adverse reactions. If the anticipated benefit for the elderly patient outweighs these potential risks, start dosing at the low end of the dosing range, and monitor patients for adverse effects [*see WARNINGS AND PRECAUTIONS (5.1, 5.2, 5.3, 5.6, 5.13)*].

Of the 911 patients treated with Diclofenac Sodium topical solution, 1.5% w/w in seven controlled, Phase 3 clinical trials, 444 subjects were 65 years of age and over. There was no age-related difference in the incidence of adverse events. Of the 793 patients treated with Diclofenac Sodium topical solution, 1.5% w/w in one open-labeled safety trial, 334 subjects were 65 years of age and over including 107 subjects 75 and over. There was no difference in the incidence of adverse events with long-term exposure to Diclofenac Sodium topical solution, 1.5% w/w for this elderly population.

## **10. OVERDOSAGE**

Symptoms following acute NSAID overdoses have been typically limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which have been generally reversible with supportive care. Gastrointestinal bleeding has occurred. Hypertension, acute renal failure, respiratory depression, and coma have occurred, but were rare. [*see WARNINGS AND PRECAUTIONS (5.1, 5.2, 5.4, 5.6)*].

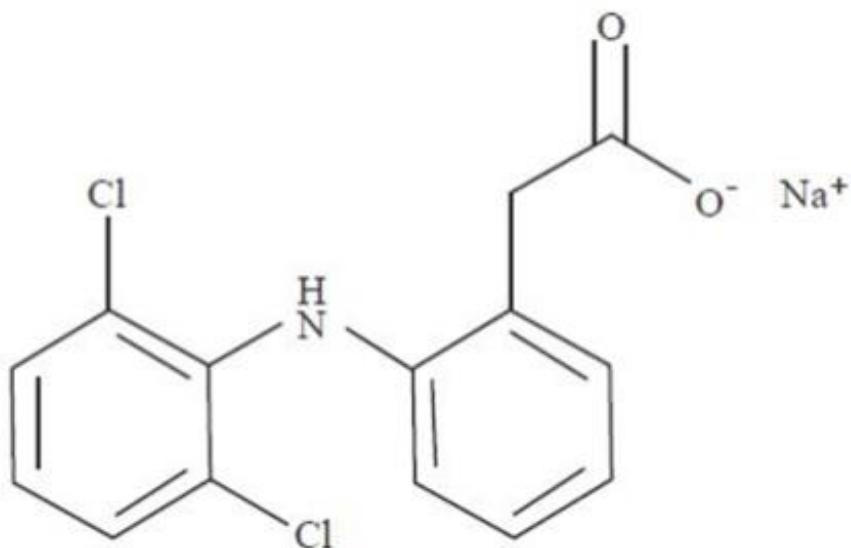
Manage patients with symptomatic and supportive care following an NSAID overdose. There are no specific antidotes. Emesis is not recommended due to a possibility of aspiration and subsequent respiratory irritation by DMSO contained in Diclofenac Sodium topical solution, 1.5% w/w. Consider activated charcoal (60 to 100 grams in adults, 1 to 2 grams per kg of body weight in pediatric patients) and/or osmotic cathartic in symptomatic patients seen within four hours of ingestion or in patients with a large overdose (5 to 10 times the recommended dosage). Forced diuresis, alkalization of urine, hemodialysis, or hemoperfusion may not be useful due to high protein binding.

For additional information about overdose treatment, contact a poison control center (1-800-222- 1222).

## 11. DESCRIPTION

Diclofenac Sodium topical solution 1.5% w/w is a nonsteroidal anti-inflammatory drug, available as a clear, colorless to faintly pink-orange solution for topical application.

Diclofenac Sodium topical solution contains 1.5% w/w of diclofenac sodium, a benzeneacetic acid derivative that is a nonsteroidal anti-inflammatory drug (NSAID), designated chemically as 2-[(2,6-dichlorophenyl) amino]-benzeneacetic acid, monosodium salt. It is a white or slightly yellowish crystalline powder, slightly hygroscopic, and odorless that is freely soluble in methanol, soluble in alcohol, slightly soluble in acetone and sparingly soluble in water. The molecular weight is 318.14. Its molecular formula is  $C_{14}H_{10}Cl_2NNaO_2$  and it has the following structural formula:



Each 1 mL of solution contains 16.05 mg of diclofenac sodium.

The inactive ingredients in Diclofenac Sodium topical solution, 1.5% w/w include: dimethyl sulfoxide USP (DMSO, 45.5% w/w), propylene glycol, alcohol, glycerin and purified water.

## 12. CLINICAL PHARMACOLOGY

### **12.1 Mechanism of Action**

Diclofenac has analgesic, anti-inflammatory, and antipyretic properties.

The mechanism of action of Diclofenac Sodium topical solution 1.5% w/w, like that of other NSAIDs, is not completely understood but involves inhibition of cyclooxygenase (COX-1 and COX-2)

Diclofenac is a potent inhibitor of prostaglandin synthesis *in vitro*. Diclofenac concentrations reached during therapy have produced *in vivo* effects. Prostaglandins sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models. Prostaglandins are mediators of inflammation. Because diclofenac is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues.

### **12.3 Pharmacokinetics**

After topical administration to healthy human volunteers of single and multiple maximum doses of Diclofenac Sodium topical solution, 1.5% w/w, 40 drops (approximately 1.2 mL) to each knee (80 drops total dose), the following diclofenac pharmacokinetic parameters were obtained: (see **Table 3**).



	Normal Adults [N=18] (Age: 18-55 years)	Normal Adults [N=19] (Age: 18-55 years)
	Single Dose	Multiple Dose Four times daily for 7 days
AU C <sub>0-t</sub>	177.5 ± 72.6 ng.h/mL	695.4 ± 348.9 ng.h/mL
AUC <sub>0-inf</sub>	196.3 ± 68.5 ng.h/mL	745.2 ± 374.7 ng.h/mL
Plasma C <sub>max</sub>	8.1 ± 5.9 ng/mL	19.4 ± 9.3 ng/mL
Plasma T <sub>max</sub> (h)	11.0 ± 6.4	4.0 ± 6.5
Plasma t <sub>1/2</sub> (h)	36.7 ± 20.8	79.0 ± 38.1
Kel (h <sup>-1</sup> )	0.024 ± 0.010	0.011 ± 0.004
CL/F (L/h)	244.7 ± 84.71	--

Table 3: Single-Dose (80 drops) and Multiple Dose (80 drops four times daily for 7 days) Diclofenac Sodium topical solution, 1.5% w/w Pharmacokinetic Parameters

1 Apparent total body clearance

### Absorption

Diclofenac systemic exposure from Diclofenac Sodium topical solution, 1.5% w/w application (4 times daily for 1 week) was approximately 1/3 of the diclofenac systemic exposure from the Solaraze (diclofenac topical gel) application (twice daily for 4 weeks).

### Distribution

Diclofenac is more than 99% bound to human serum proteins, primarily to albumin. Diclofenac diffuses into and out of the synovial fluid. Diffusion into the joint occurs when plasma levels are higher than those in the synovial fluid, after which the process reverses and synovial fluid levels are higher than plasma levels. It is not known whether diffusion into the joint plays a role in the effectiveness of diclofenac.

### Elimination

#### *Metabolism*

Five diclofenac metabolites have been identified in human plasma and urine. The metabolites include 4'-hydroxy-, 5-hydroxy-, 3'-hydroxy-, 4',5-dihydroxy- and 3'-hydroxy-4'-methoxy diclofenac. The major diclofenac metabolite, 4'-hydroxy-diclofenac, has very weak pharmacologic activity. The formation of 4'-hydroxy diclofenac is primarily mediated by CPY2C9. Both diclofenac and its oxidative metabolites undergo glucuronidation or sulfation followed by biliary excretion. Acylglucuronidation mediated by UGT2B7 and oxidation mediated by CPY2C8 may also play a role in diclofenac metabolism. CYP3A4 is responsible for the formation of minor metabolites, 5-hydroxy and 3'-hydroxy-diclofenac.

#### *Excretion*

Diclofenac is eliminated through metabolism and subsequent urinary and biliary excretion of the glucuronide and the sulfate conjugates of the metabolites.

Little or no free unchanged diclofenac is excreted in the urine.

### Specific Populations

*Pediatric:* The pharmacokinetics of Diclofenac Sodium topical solution, 1.5% w/w has not been investigated in pediatric patients.

*Race:* Pharmacokinetic differences due to race have not been studied.

### Drug Interaction Studies

*Aspirin:* When NSAIDs were administered with aspirin, the protein binding of NSAIDs were reduced, although the clearance of free NSAID was not altered. The clinical significance of this interaction is

not known. See Table 1 for clinically significant drug interactions of NSAIDs with aspirin [see DRUG INTERACTIONS (7)].

## **13. NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### **Carcinogenesis**

Carcinogenicity studies in mice and rats administered diclofenac sodium as a dietary constituent for 2 years resulted in no significant increases in tumor incidence at doses up to 2 mg/kg/day corresponding to approximately 0.35- and 0.7-fold (mouse and rat, respectively) of the maximum recommended human topical dose (MRHD) of Diclofenac Sodium topical solution, 1.5% w/w (based on apparent bioavailability and body surface area comparison).

In a dermal carcinogenicity study conducted in albino mice, daily topical applications of diclofenac sodium for two years at concentrations up to 0.035% diclofenac sodium (a 43-fold lower diclofenac sodium concentration than present in Diclofenac Sodium topical solution, 1.5% w/w) did not increase neoplasm incidence.

In a photocarcinogenicity study conducted in hairless mice, topical application of diclofenac sodium at doses up to 0.035% diclofenac sodium (a 43-fold lower diclofenac sodium concentration than present in Diclofenac Sodium topical solution, 1.5% w/w) resulted in an earlier median time of onset of tumors.

#### **Mutagenesis**

Diclofenac was not mutagenic or clastogenic in a battery of genotoxicity tests that included the bacterial reverse mutation assay, *in vitro* mouse lymphoma point mutation assay, chromosomal aberration studies in Chinese hamster ovarian cells *in vitro*, and *in vivo* rat chromosomal aberration assay of bone marrow cells.

#### **Impairment of Fertility**

Fertility studies have not been conducted with Diclofenac Sodium topical solution, 1.5% w/w. Diclofenac sodium administered to male and female rats at doses up to 4 mg/kg/day (1.4-fold of the MRHD of Diclofenac Sodium topical solution, 1.5% w/w based on apparent bioavailability and body surface area comparison) did not affect fertility. Studies have not been conducted to determine the safety of DMSO on fertility.

### **13.2 Animal Toxicology and/or Pharmacology**

#### **Ocular Effects**

No adverse effects were observed using indirect ophthalmoscopy after multiple-daily dermal application to rats for 26 weeks and minipigs for 52 weeks of DMSO at twice the concentration found in Diclofenac Sodium topical solution, 1.5% w/w. Published studies of dermal or oral administration of DMSO to rabbits, dogs and pigs described refractive changes of lens curvature and cortical fibers indicative of myopic changes and/or incidences of lens opacity or discoloration when evaluated using slit-lamp biomicroscopy examination, although no ocular abnormalities were observed in rhesus monkeys during daily oral or dermal treatment with DMSO for 9 to 18 months.

## **14. CLINICAL STUDIES**

### **14.1 Studies in Osteoarthritis of the Knee**

The use of Diclofenac Sodium topical solution, 1.5% w/w for the treatment of the signs and symptoms of osteoarthritis of the knee was evaluated in two double-blind controlled trials conducted in the US and Canada, involving patients treated with Diclofenac Sodium topical solution, 1.5% w/w at a dose of 40 drops four times a day for 12 weeks. Diclofenac Sodium topical solution, 1.5% w/w was compared to topical placebo (2.3% DMSO with other excipients) and/or topical vehicle solution (45.5% w/w DMSO

with other excipients), applied directly to the study knee. In both trials, Diclofenac Sodium topical solution, 1.5% w/w treatment resulted in statistically significant clinical improvement compared to placebo and/or vehicle, in all three primary efficacy variables—pain, physical function (Western Ontario and McMaster Universities LK3.1 OA Index (WOMAC) pain and physical function dimensions) and Patient Overall Health Assessment (POHA)/Patient Global Assessment (PGA). Numerical results are summarized in Tables 4 and 5.

**Table 4: Change in treatment outcomes after 12 weeks of treatment in one study of efficacy of Diclofenac Sodium topical solution, 1.5% w/w**

Efficacy Variable	Study I Mean baseline score and mean change in efficacy variables after 12 weeks of treatment			
	Mean Baseline score	Diclofenac Sodium topical solution, 1.5% w/w N=154	Topical placebo1 N=155	Topical vehicle2 N=161
WOMAC pain score (Likert 3.1, 0-20)	13	-6.0	-4.7	-4.7
WOMAC physical function (Likert 3.1, 0-68)	42	-15.7	-12.3	-12.1
POHA (0-4)	2.3	-1.0	-0.4	-0.6
1placebo formulation included 2.3% DMSO 2vehicle formulation included 45.5% DMSO				

**Table 5: Change in treatment outcomes after 12 weeks of treatment in one study of efficacy of Diclofenac Sodium topical solution, 1.5% w/w**

Efficacy Variable	Study II Mean baseline score and mean change in efficacy variables after 12 weeks of treatment		
	Mean Baseline score	Diclofenac Sodium topical solution, 1.5% w/w N=164	Topical vehicle1 N=162
WOMAC pain score (Likert 3.1, 0-20)	13	-5.9	-4.4
WOMAC physical function (Likert 3.1, 0-68)	42	-15.3	-10.3
PGA (0-4)	3.1	-1.3	-1.0
1vehicle formulation included 45.5% DMSO			

## **16. HOW SUPPLIED/STORAGE AND HANDLING**

Diclofenac Sodium topical solution, 1.5% w/w, is supplied as a clear, colorless to faintly pink-orange solution containing 16.05 mg of diclofenac sodium per mL of solution, in a white high density polyethylene bottle with a white low-density dropper cap.

## **NDC Number & Size**

150 mL bottle NDC #50742-308-05

## **Storage**

Store at room temperature 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [See USP Controlled Room Temperature].

## **17. PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Medication Guide) and Instructions for Use that accompanies each prescription dispensed. Inform patients, families, or their caregivers of the following information before initiating therapy with Diclofenac Sodium topical solution, 1.5% w/w and periodically during the course of ongoing therapy.

### **Cardiovascular Thrombotic Events**

Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, shortness of breath, weakness, or slurring of speech, and to report any of these symptoms to their health care provider immediately [see *WARNINGS AND PRECAUTIONS (5.1)*].

### **Gastrointestinal Bleeding, Ulceration, and Perforation**

Advise patients to report symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, melena, and hematemesis to their health care provider. In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, inform patients of the increased risk for and the signs and symptoms of GI bleeding [see *WARNINGS AND PRECAUTIONS (5.2)*].

### **Hepatotoxicity**

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, diarrhea, jaundice, right upper quadrant tenderness, and “flu-like” symptoms). If these occur, instruct patients to stop Diclofenac Sodium topical solution, 1.5% w/w and seek immediate medical therapy [see *WARNINGS AND PRECAUTIONS (5.3)*].

### **Heart Failure and Edema**

Advise patients to be alert for the symptoms of congestive heart failure including shortness of breath, unexplained weight gain, or edema and to contact their healthcare provider if such symptoms occur [see *WARNINGS AND PRECAUTIONS (5.5)*].

### **Anaphylactic Reactions**

Inform patients of the signs of an anaphylactic reaction (e.g. difficulty breathing, swelling of the face or throat). Instruct patients to seek immediate emergency help if these occur [see *CONTRAINDICATIONS (4) and WARNINGS AND PRECAUTIONS (5.7)*].

### **Serious Skin Reactions**

Advise patients to stop Diclofenac Sodium topical solution, 1.5% w/w immediately if they develop any type of generalized rash and contact their physicians as soon as possible.

### **Female Fertility**

Advise females of reproductive potential who desire pregnancy that NSAIDs, including Diclofenac Sodium topical solution, 1.5% w/w, may be associated with a reversible delay in ovulation [see *USE IN SPECIFIC POPULATIONS (8.3)*].

### **Fetal Toxicity**

Inform pregnant women to avoid use of Diclofenac Sodium topical solution, 1.5% w/w and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus [see *WARNINGS AND PRECAUTIONS (5.10) and USE IN SPECIFIC POPULATIONS (8.1)*].

### **Avoid Concomitant Use of NSAIDs**

Inform patients that the concomitant use of Diclofenac Sodium topical solution, 1.5% w/w with other

NSAIDs or salicylates (e.g., diflunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity, and little or no increase in efficacy [see **WARNINGS AND PRECAUTIONS (5.2)** and **DRUG INTERACTIONS (7)**]. Alert patients that NSAIDs may be present in “over the counter” medications for treatment of colds, fever, or insomnia.

#### Use of NSAIDs and Low-Dose Aspirin

Inform patients not to use low-dose aspirin concomitantly with Diclofenac Sodium topical solution, 1.5% w/w until they talk to their healthcare provider [see **DRUG INTERACTIONS (7)**].

#### Eye Exposure

Instruct patients to avoid contact of Diclofenac Sodium topical solution, 1.5% w/w with the eyes and mucosa. Advise patients that if eye contact occurs, immediately wash out the eye with water or saline and consult a physician if irritation persists for more than an hour.

#### Prevention of Secondary Exposure

Instruct patients to avoid skin-to-skin contact between other people and the knee(s) to which Diclofenac Sodium topical solution, 1.5% w/w was applied until the knee(s) is completely dry.

#### Application Site Reactions

Diclofenac Sodium topical solution, 1.5% w/w can cause a localized skin reaction at the application site. Advise patients to contact their physicians as soon as possible if they develop any type of localized application site rash.

#### Special Application Instructions

- Instruct patients not to apply Diclofenac Sodium topical solution, 1.5% w/w to open skin wounds, infections, inflammations, or exfoliative dermatitis, as it may affect absorption and reduce tolerability of the drug.
- Instruct patients to wait until the area treated with Diclofenac Sodium topical solution, 1.5% w/w is completely dry before applying sunscreen, insect repellent, lotion, moisturizer, cosmetics, or other topical medication.
- Instruct patients to minimize or avoid exposure of treated knee(s) to natural or artificial sunlight.

#### **Manufactured for:**

Ingenus Pharmaceuticals, LLC  
Orlando, FL 32839-6408

Rev: 09/2017

### **• MEDICATION GUIDE FOR NONSTEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDS)**

#### **What is the most important information I should know about medicines called Nonsteroidal Anti-inflammatory Drugs (NSAIDs)?**

##### **NSAIDs can cause serious side effects, including:**

- **Increased risk of a heart attack or stroke that can lead to death.** This risk may happen early in treatment and may increase:
  - with increasing doses of NSAIDs
  - with longer use of NSAIDs

#### **Do not take NSAIDs right before or after a heart surgery called a “coronary artery bypass graft (CABG).”**

**Avoid taking NSAIDs after a recent heart attack, unless your healthcare provider tells you to. You may have an increased risk of another heart attack if you take NSAIDs after a recent heart attack.**

- **Increased risk of bleeding, ulcers, and tears (perforation) of the esophagus (tube leading**

**from the mouth to the stomach), stomach and intestines:**

- anytime during use
- without warning symptoms
- that may cause death

**The risk of getting an ulcer or bleeding increases with:**

- past history of stomach ulcers, or stomach or intestinal bleeding with use of NSAIDs
- taking medicines called “corticosteroids”, “anticoagulants”, “SSRIs”, or “SNRIs”
- increasing doses of NSAIDs
- longer use of NSAIDs
- smoking
- drinking alcohol
- older age
- poor health
- advanced liver disease
- bleeding problems

**NSAIDs should only be used:**

- exactly as prescribed
- at the lowest dose possible for your treatment
- for the shortest time needed

**What are NSAIDs?**

NSAIDs are used to treat pain and redness, swelling, and heat (inflammation) from medical conditions such as different types of arthritis, menstrual cramps, and other types of short-term pain.

**Who should not take NSAIDs?**

**Do not take NSAIDs:**

- if you have had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAIDs.
- right before or after heart bypass surgery.

**Before taking NSAIDs, tell your healthcare provider about all of your medical conditions, including if you:**

- have liver or kidney problems
- have high blood pressure
- have asthma
- are pregnant or plan to become pregnant. Talk to your healthcare provider if you are considering taking NSAIDs during pregnancy. **You should not take NSAIDs after 29 weeks of pregnancy.**
- are breastfeeding or plan to breast feed.

**Tell your healthcare provider about all of the medicines you take, including prescription or over-the-counter medicines, vitamins or herbal supplements.** NSAIDs and some other medicines can interact with each other and cause serious side effects. **Do not start taking any new medicine without talking to your healthcare provider first.**

**What are the possible side effects of NSAIDs?**

**NSAIDs can cause serious side effects, including:**

**See “What is the most important information I should know about medicines called Nonsteroidal Anti-inflammatory Drugs (NSAIDs)?**

- new or worse high blood pressure
- heart failure

- liver problems including liver failure
- kidney problems including kidney failure
- low red blood cells (anemia)
- life-threatening skin reactions
- life-threatening allergic reactions
- **Other side effects of NSAIDs include:** stomach pain, constipation, diarrhea, gas, heartburn, nausea, vomiting, and dizziness.

**Get emergency help right away if you get any of the following symptoms:**

- shortness of breath or trouble breathing
- chest pain
- weakness in one part or side of your body
- slurred speech
- swelling of the face or throat

**Stop taking your NSAID and call your healthcare provider right away if you get any of the following symptoms:**

- nausea
- more tired or weaker than usual
- diarrhea
- itching
- your skin or eyes look yellow
- indigestion or stomach pain
- vomit blood
- there is blood in your bowel movement or it is black and sticky like tar
- unusual weight gain
- skin rash or blisters with fever
- swelling of the arms, legs, hands and feet
- flu-like symptoms

**If you take too much of your NSAID, call your healthcare provider or get medical help right away.**

These are not all the possible side effects of NSAIDs. For more information, ask your healthcare provider or pharmacist about NSAIDs.

Call your doctor for medical advice about side effects.

You may report side effects to FDA at 1-800-FDA-1088.

**Other information about NSAIDs**

- Aspirin is an NSAID but it does not increase the chance of a heart attack. Aspirin can cause bleeding in the brain, stomach, and intestines. Aspirin can also cause ulcers in the stomach and intestines.
- Some NSAIDs are sold in lower doses without a prescription (over-the-counter). Talk to your healthcare provider before using over-the-counter NSAIDs for more than 10 days.

**General information about the safe and effective use of NSAIDs**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use NSAIDs for a condition for which it was not prescribed. Do not give NSAIDs to other people, even if they have the same symptoms that you have. It may harm them.

If you would like more information about NSAIDs, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about NSAIDs that is written for health professionals.

**Manufactured for:** Ingenus Pharmaceuticals, LLC Orlando, FL 32839-6408

- **INSTRUCTIONS FOR USE**  
**DICLOFENAC SODIUM TOPICAL SOLUTION, 1.5% W/W**

Read the Medication Guide that comes with Diclofenac Sodium topical solution, 1.5% w/w first. Be sure that you read, understand and follow these Instructions for Use before you use Diclofenac Sodium topical solution, 1.5% w/w for the first time.

**Important: For use on the skin only (topical). Do not get Diclofenac Sodium topical solution, 1.5% w/w in your eyes, nose or mouth.**

**Before you use Diclofenac Sodium topical solution, 1.5% w/w:**

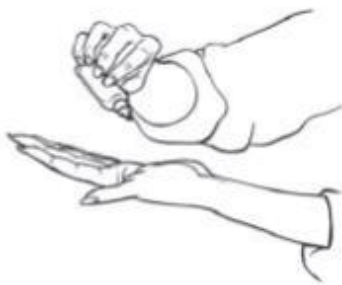
- Apply Diclofenac Sodium topical solution, 1.5% w/w exactly as your healthcare provider tells you. Talk with your healthcare provider or pharmacist if you are not sure.
- Only use Diclofenac Sodium topical solution, 1.5% w/w to treat pain from osteoarthritis in your knee or knees.
- Apply Diclofenac Sodium topical solution, 1.5% w/w on clean, dry skin that does not have any cuts, infections or rashes.
- Use Diclofenac Sodium topical solution, 1.5% w/w four times a day on your knee or knees as prescribed.
- Your total dose for each knee is 40 drops of Diclofenac Sodium topical solution, 1.5% w/w, each time you use it.
- If you get Sodium topical solution, 1.5% w/w in your eyes, rinse your eyes right away with water or saline. Call your healthcare provider if your eyes are irritated for more than one hour.

**Steps for using Diclofenac Sodium topical solution, 1.5% w/w:**

Step 1. Wash your hands with soap and water before and after applying Diclofenac Sodium topical solution, 1.5% w/w

Step 2. Put 10 drops of Diclofenac Sodium topical solution, 1.5% w/w **either** on your hand **or** directly on your knee (see **Figure A**).

**Figure A**



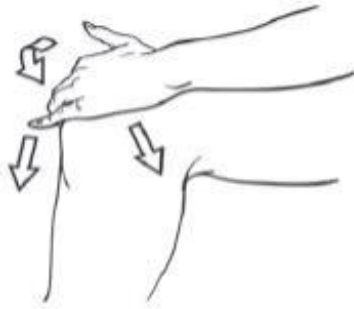
or



Step 3. Spread Diclofenac Sodium topical solution, 1.5% w/w evenly on the front, back and sides of your knee (see **Figures B** and **C**). Repeat steps 2 and 3, three times so that your knee is completely covered with a **total** of 40 drops of Diclofenac Sodium topical solution, 1.5% w/w.



**Figure B**



**Figure C**



Step 4. If your healthcare provider has prescribed Diclofenac Sodium topical solution, 1.5% w/w for both knees, repeat steps 2 and 3 for the other knee.

**After you use Diclofenac Sodium topical solution, 1.5% w/w:**

- Wash your hands with soap and water right away after applying Diclofenac Sodium topical solution, 1.5% w/w.

**Do not:**

- touch the treated knee or allow another person to touch the knee treated with Diclofenac Sodium topical solution, 1.5% w/w until your knee is completely dry.
- cover your knee with clothing until your knee is completely dry.
- put sunscreen, insect repellent, lotion, moisturizer, cosmetics, or other topical medicines on your knee until it is completely dry.
- take a shower or a bath for at least 30 minutes after you put Diclofenac Sodium topical solution, 1.5% w/w on your knee.
- use heating pads or cover the treated area with bandages where you have applied Diclofenac Sodium topical solution, 1.5% w/w.
- use sunlamps and tanning beds. Protect your treated knee from sunlight. Wear clothes that cover your skin if you have to be in sunlight.

**How should I store Diclofenac Sodium topical solution, 1.5% w/w?**

- Store Diclofenac Sodium topical solution, 1.5% w/w at room temperature between 68°F to 77°F (20°C to 25°C).

Keep Diclofenac Sodium topical solution, 1.5% w/w and all medicines out of the reach of children.

**This Instructions for Use has been approved by the U.S. Food and Drug Administration.**

**Manufactured for:**

Ingenus Pharmaceuticals, LLC  
Orlando, FL 32839-6408

**CAPSAICIN- capsaicin 0.025% Cream**

**Alexso, Inc.**

*Disclaimer: Most OTC drugs are not reviewed and approved by FDA, however they may be marketed if they comply with applicable regulations and policies. FDA has not evaluated whether this product complies.*

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**Capsaicin 0.025% Cream**

***Drug Facts***

**Active ingredient**

Capsaicin 0.025%

**Purpose**

External analgesic

**Uses**

Temporarily relieves minor aches and pains of muscles and joints due to:

- simple backache
- arthritis
- strains
- sprains

**Warnings**

**For external use only**

Read all warnings and directions before use. Test first on small area of skin.

**Do not use**

- On wounds or damaged skin
- If you are allergic to capsicum or chili peppers

**When using this product**

- You may experience a burning sensation. The intensity of this reaction varies among individuals and may be severe. With regular use, this sensation generally disappears after several days.
- Avoid contact with the eyes, lips, nose and mucous membranes
- Do not tightly wrap or bandage the treated area
- Do not apply heat to the treated area immediately before or after use

**Stop use and ask a doctor if**

- Condition worsens or does not improve after regular use
- Severe burning persists or blistering occurs

**Keep out of reach of children.**

If swallowed, get medical help or contact a Poison Control Center immediately.

**Directions****Adults and children 18 years of age and older:**

Apply a thin film of cream to affected area and gently rub in until fully absorbed unless treating hands. Wash hands thoroughly with soap and water immediately after application for best results. Apply 3 to 4 times daily.

**Children under 18 years:** Ask a doctor

**Other information**

Store at room temperature 15°-30°C (59°-86°F)

**Inactive ingredients**

Aqua (Deionized Water), Arnica Montana Flower Extract, Boswellia Serrata Extract, Cetearyl Alcohol, Chondroitin Sulfate, Ethylhexylglycerin, Glucosamine Sulfate, Glycerin, Glyceryl Stearate, C13-14 Isoparaffin, Isostearyl Palmitate, Laureth-7, Methylsufonylmethane (MSM), PEG-100 Stearate, Phenoxyethanol, Polyacrylamide, Propylene Glycol, Sodium Polyacrylate, Stearic Acid, and Triethanolamine

**PRINCIPAL DISPLAY PANEL**

CapsFenac Pak  
Diclofenac Sodium Topical Solution  
(1.5% w/w, 150 mL)  
Capsaicin Cream  
(Capsaicin 0.025%, 120g)  
NDC 69420-9001-1  
Rx Only



## CAPSFENAC PAK

diclofenac sodium and capsaicin kit

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:69420-9001
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### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:69420-9001-1	1 in 1 KIT; Type 0: Not a Combination Product	11/01/2018	

### Quantity of Parts

Part #	Package Quantity	Total Product Quantity
Part 1	1 BOTTLE	150 mL
Part 2	1 TUBE	120 g

## Part 1 of 2

### DICLOFENAC SODIUM

diclofenac sodium solution

### Product Information

Route of Administration TOPICAL

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DICLOFENAC SODIUM (UNII: QTG126297Q) (DICLOFENAC - UNII:14408QL0L1)	DICLOFENAC SODIUM	16.05 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
DIMETHYL SULFOXIDE (UNII: YOW8V9698H)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
ALCOHOL (UNII: 3K9958V90M)	
GLYCERIN (UNII: PDC6A3C0OX)	
WATER (UNII: 059QF0K00R)	

### Product Characteristics

Color	PINK (clear, colorless to faintly pink-orange)	Score	
Shape		Size	
Flavor		Imprint Code	
Contains			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		150 mL in 1 BOTTLE; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206715	11/01/2018	

### Part 2 of 2

### CAPSAICIN

capsaicin cream

### Product Information

Route of Administration TOPICAL

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
CAPSAICIN (UNII: S07O44R1ZM) (CAPSAICIN - UNII:S07O44R1ZM)	CAPSAICIN	0.025 g in 100 g

**Inactive Ingredients**

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	
ARNICA MONTANA FLOWER (UNII: OZ0E5Y15PZ)	
INDIAN FRANKINCENSE (UNII: 4PW41QCO2M)	
CETOSTEARYL ALCOHOL (UNII: 2DMT128M1S)	
CHONDROITIN SULFATE (BOVINE) (UNII: 6IC1M3OG5Z)	
ETHYLHEXYLGLYCERIN (UNII: 147D247K3P)	
GLUCOSAMINE SULFATE (UNII: 1FW7WLR731)	
GLYCERIN (UNII: PDC6A3C0OX)	
GLYCERYL MONOSTEARATE (UNII: 230OU9XXE4)	
C13-14 ISOPARAFFIN (UNII: E4F12ROE70)	
ISOSTEARYL PALMITATE (UNII: 9EHU0R7ER1)	
LAURETH-7 (UNII: Z95S6G8201)	
DIMETHYL SULFONE (UNII: 9H4PO4Z4FT)	
PEG-100 STEARATE (UNII: YD01N1999R)	
PHENOXYETHANOL (UNII: HIE492ZZ3T)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
STEARIC ACID (UNII: 4ELV7Z65AP)	

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		1 in 1 CARTON		
1		120 g in 1 TUBE; Type 0: Not a Combination Product		

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
OTC MONOGRAPH NOT FINAL	part348	11/01/2018	

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206715	11/01/2018	

**Labeler** - SA3, LLC (079627454)

