DICLOVIX CM- diclofenac sodium, with capsaicin cream and menthol gel Primary Pharmaceuticals, Inc

Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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 1.5% w/w is for topical use only.

Initial U.S. Approval: 1988

WARNING: CARDIOVASCULAR AND GASTROINTESTINAL RISK See full prescribing information for complete boxed warning

Cardiovascular Risk

- Nonsteroidal anti-inflammatory drugs (NSAIDS) may cause an increased risk of serious cardiovascular thrombotic events, myocardial infarction, and stroke, which can be fatal. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk. (5.1)
- Diclofenac sodium topical solution is contraindicated for the treatment of perioperative pain in the setting of coronary artery bypass graft (CABG) surgery. (4)

Gastrointestinal Risk

• NSAIDs, including diclofenac sodium topical solution cause an increased risk of serious gastrointestinal adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients are at greater risk for serious gastrointestinal events. (5.2)

Diclofenac sodium topical solution is a nonsteroidal anti-inflammatory drug (NSAID) indicated for the treatment of signs and symptoms of osteoarthritis of the knee(s). (1)

For the relief of the signs and symptoms of osteoarthritis of the knee(s), the recommended dose is 40 drops on each painful knee, 4 times a day. (2)

- Apply diclofenac sodium topical solution to clean, dry skin. (2.1)
- Dispense diclofenac sodium topical solution 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 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.
- Do not get diclofenac sodium topical solution in your eyes, nose or mouth.

• 1.5% w/w	topical solution (3)
	CONTRAINDICATIONS
	persensitivity to diclofenac sodium. (4)
	asthma, urticaria, or allergic-type reactions after taking aspirin or other NSAIDs. (4) e perioperative period of coronary artery bypass graft (CABG) surgery. (4)
	WARNINGS AND PRECAUTIONS
occur with patients w NSAIDs ca perforatio ulcer dise Elevation sodium to Hypertens topical so Use diclof Long-term diclofenac	nd potentially fatal cardiovascular thrombotic events, myocardial infarction, and stroke can NSAID treatment. Use the lowest effective dose of diclofenac sodium topical solution in with known CV disease or risk factors for CV disease. (5.1) an cause gastrointestinal (GI) adverse events including inflammation, bleeding, ulceration, ar n. Prescribe diclofenac sodium topical solution with caution in those with a prior history of ase or gastrointestinal bleeding. (5.2) of one or more liver tests may occur during therapy with NSAIDs. Discontinue diclofenac opical solution immediately if abnormal liver tests persist or worsen. (5.3) sion can occur with NSAID treatment. Monitor blood pressure closely with diclofenac sodium lution treatment. (5.4) enac sodium topical solution with caution in patients with fluid retention or heart failure. (5.5 n administration of NSAIDs can result in renal papillary necrosis and other renal injury. Use c sodium topical solution with caution in patients at greatest risk of this reaction, including the ose with impaired renal function, heart failure, liver dysfunction, and those taking diuretics
 Anaphylad 	nhibitors. (5.6) ctoid reactions may occur in patients with the aspirin triad or in patients without prior exposu
 NSAIDs ca syndrome 	nac sodium topical solution. (5.7) an cause serious skin adverse events such as exfoliative dermatitis, Stevens-Johnson e (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. (5.8) e during pregnancy. (5.9)
 Do not ad 	minister to patients with aspirin sensitive asthma and use with caution in patients with g asthma. (5.10)
 Avoid exp Avoid con 	osure of treated knee(s) to natural or artificial sunlight. (5.11) tact of diclofenac sodium topical solution with eyes and mucosa. (5.12) current use with oral NSAIDs. (5.13)

The most common adverse events with diclofenac sodium topical solution are application site reactions. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Teligent Pharma, Inc. at 1-856-697-1441, or FDA at 1-800-FDA-1088 or *www.fda.gov/medwatch*.

DRUG INTERACTIONS

- Concomitant administration of diclofenac and aspirin is not generally recommended because of the potential of increased adverse effects including increased GAI bleeding. (7.1)
- Concomitant use of anticoagulants and diclofenac have a risk of serious GI bleeding higher than users of either drug alone. (7.2)

- Pregnancy: Not recommended for use during pregnancy. (8.1)
- Nursing Mothers: Use with caution, as it is not known if diclofenac is excreted in human milk. (8.3)

----- INDICATIONS AND USAGE

temporarily relieves minor aches and pains of muscles and joints due to: (32)

- simple backache
- arthritis
- strains
- sprains

DOSAGE AND ADMINISTRATION

Adults and children 18 years of age and older: (34)

• 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.

(34)

Children under 18 years: ask a doctor (34) **See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

Revised: 7/2016

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FULL PRESCRIBING INFORMATION

Diclofenac Sodium Topical Solution, 150ml (52565-002-05)

WARNING: CARDIOVASCULAR AND GASTROINTESTINAL RISK

Cardiovascular Risk

- Nonsteroidal anti-inflammatory drugs (NSAIDs) may cause an increased risk of serious cardiovascular thrombotic events, myocardial infarction, and stroke, which can be fatal. This risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk [see Warnings and Precautions (5.1)].
- Diclofenac sodium topical solution is contraindicated in the perioperative setting of coronary artery bypass graft (CABG) surgery [see Contraindications (4)].

Gastrointestinal Risk

• NSAIDs cause an increased risk of serious gastrointestinal adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients are at greater risk for serious gastrointestinal events [see Warnings and Precautions (5.2)].

1. INDICATIONS AND USAGE

Diclofenac sodium topical solution is a nonsteroidal anti-inflammatory drug (NSAID) indicated for the treatment of signs and symptoms of osteoarthritis of the knee(s).

2. DOSAGE AND ADMINISTRATION

2.1 General Instructions

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 to clean, dry skin.

To avoid spillage, dispense diclofenac sodium topical solution 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 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 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 to the treated knee.
- Wash and dry hands after use.

- Do not apply diclofenac sodium topical solution to open wounds.
- Avoid contact of diclofenac sodium topical solution 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-treated knee(s) until the treated knee is dry.
- Protect the treated knee(s) from sunlight.
- Wait until the treated area is dry before applying sunscreen, insect repellant, lotion, moisturizer, cosmetics, or other topical medication to the same knee you have just treated with diclofenac sodium topical solution.
- Until the treated knee(s) is completely dry, avoid skin-to-skin contact between other people and the treated knee(s).

3. DOSAGE FORMS AND STRENGTHS

1.5% w/w topical solution

4. CONTRAINDICATIONS

Diclofenac sodium topical solution is contraindicated in patients with a known hypersensitivity to diclofenac sodium or any other component of diclofenac sodium topical solution.

Diclofenac sodium topical solution is contraindicated in patients who have experienced asthma, urticaria, or allergic-type reactions after taking aspirin or other NSAIDs. Severe, rarely fatal, anaphylactic-like reactions to NSAIDs have been reported in such patients *[see Warnings and Precautions (5.7, 5.10)].*

Diclofenac sodium topical solution is contraindicated 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 oral COX-2 selective and nonselective NSAIDs of up to three years duration have shown an increased risk of serious cardiovascular (CV) thrombotic events, myocardial infarction (MI), and stroke, which can be fatal. All NSAIDs, including diclofenac sodium topical solution and COX-2 selective and nonselective orally administered NSAIDs, may have a similar risk. Patients with known CV disease or risk factors for CV disease may be at greater risk. To minimize the potential risk for an adverse CV event in patients treated with an NSAID, use the lowest effective dose for the shortest duration possible. Physicians and patients should remain alert for the development of such events, even in the absence of previous CV symptoms. Inform patients about the signs and/or symptoms of serious CV events and the steps to take if they occur.

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

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 NSAIDS, such as diclofenac, does increase the risk of serious GI *events* [see Warnings and Precautions (5.2)]

5.2 Gastrointestinal Effects - Risk of GI Ulceration, Bleeding, and Perforation

NSAIDs, including diclofenac, can cause serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the 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 occur in approximately 1% of patients treated for 3 to 6 months, and in about 2 to 4% of patients treated for one year. These trends continue with longer duration of use, increasing the likelihood of developing a serious GI event at some time during the course of therapy. However, even short-term therapy is not without risk.

Prescribe NSAIDs, including diclofenac sodium topical solution, with extreme caution in those with a prior history of ulcer disease or gastrointestinal bleeding. Patients with a prior history of peptic ulcer disease and/or gastrointestinal bleeding who use NSAIDs have a greater than 10-fold increased risk for developing a GI bleed compared to patients with neither of these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include concomitant use of oral corticosteroids or anticoagulants, longer duration of NSAID therapy, smoking, use of alcohol, older age, and poor general health status. Most spontaneous reports of fatal GI events are in elderly or debilitated patients and therefore, use special care when treating this population.

To minimize the potential risk for an adverse GI event, use the lowest effective dose for the shortest possible duration. Remain alert for signs and symptoms of GI ulceration and bleeding during diclofencac therapy and promptly initiate additional evaluation and treatment if a serious GI adverse event is suspected. For high-risk patients, consider alternate therapies that do not involve NSAIDs.

5.3 Hepatic Effects

Borderline elevations (less than 3 times the upper limit of the normal [ULN] range) or greater elevations of transaminases occurred in about 15% of oral diclofenac-treated patients in clinical trials of indications other than acute pain. Of the markers of hepatic function, ALT (SGPT) is recommended for the monitoring of liver injury.

In clinical trials of an oral diclofenac – misoprostol combination product, meaningful elevations (i.e., more than 3 times the ULN) of AST (SGOT) occurred in about 2% of approximately 5,700 patients at some time during diclofenac treatment (ALT was not measured in all studies).

In an open-label, controlled trial of 3,700 patients treated for 2 to 6 months, patients with oral diclofenac 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 the 3,700 patients and included marked elevations (>8 times the ULN) in about 1% of the 3,700 patients. In this open-label study, a higher incidence of borderline (less than 3

times the ULN), moderate (3 to 8 times the ULN), and marked (>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 test occurred during the first 2 months of therapy with oral 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 NSAID therapy.

Postmarketing surveillance has reported cases of sever 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 oral 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.

Measure transaminases (ALT and AST) 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, monitor transaminases 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.), discontinue diclofenac sodium topical solution immediately.

To minimize the possibility that hepatic injury will become severe between transaminase measurements, inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flulike" symptoms), and the appropriate action to take if these signs and symptoms appear.

To minimize the potential risk for an adverse liver-related event in patients treated with diclofenac sodium topical solution, use the lowest effective dose for the shortest duration possible. Exercise caution when prescribing diclofenac sodium topical solution with concomitant drugs that are known to be potentially hepatotoxic (e.g., acetaminophen, certain antibiotics, antiepileptics). Caution patients to avoid taking unprescribed acetaminophen while using diclofenac sodium topical solution.

5.4 Hypertension

NSAIDs, including diclofenac, can lead to new onset or worsening of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Use NSAIDs, including diclofenac sodium topical solution, with caution in patients with hypertension. Monitor blood pressure (BP) closely during the initiation of NSAID treatment and throughout the course of therapy. Patients taking ACE-inhibitors, thiazides or loop diuretics may have impaired response to these therapies when taking NSAIDs.

5.5 Congestive Heart Failure and Edema

Fluid retention and edema have been observed in some patients treated with NSAIDs, including diclofenac sodium topical solution. Use diclofenac sodium topical solution with caution in patients with fluid retention or heart failure.

5.6 Renal Effects

Use caution when initiating treatment with diclofenac sodium topical solution in patients with considerable dehydration.

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, heart failure, liver dysfunction, those taking diuretics and ACE-inhibitors, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state.

No information is available from controlled clinical studies regarding the use of diclofenac sodium topical solution in patients with advanced renal disease. Therefore, treatment with diclofenac sodium topical solution is not recommended in patients with advanced renal disease. If diclofenac sodium topical solution therapy is initiated, close monitoring of the patient's renal function is advisable.

5.7 Anaphylactoid Reactions

As with other NSAIDs, anaphylactoid reactions may occur in patients without prior exposure to diclofenac sodium topical solution. Do not prescribe diclofenac sodium topical solution to patients with the aspirin triad. This symptom complex typically occurs in asthmatic patients who experience rhinitis with or without nasal polyps, or who exhibit severe, potentially fatal bronchospasm after taking aspirin or other NSAIDs [*see Contraindications (4) and Warnings and Precautions (5.10)*]. Seek emergency help in cases where an anaphylactoid reaction occurs.

5.8 Skin Reactions

Do not apply diclofenac sodium topical solution to open skin wounds, infections, inflammations, or exfoliative dermatitis, as it may affect absorption and tolerability of the drug.

NSAIDs, including diclofenac sodium topical solution, can cause serious skin adverse events 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 manifestations, and discontinue use of the drug at the first appearance of skin rash or any other signs of hypersensitivity.

5.9 Pregnancy

Diclofenac sodium topical solution should not be used by pregnant or nursing women or those intending to become pregnant.

5.10 Preexisting Asthma

Patients with asthma may have aspirin-sensitive asthma. The use of aspirin in patients with aspirin-sensitive asthma has been associated with severe bronchospasm, which can be fatal. Since cross-reactivity, including bronchospasm, between aspirin and other nonsteroidal anti-inflammatory drugs has been reported in such aspirin-sensitive patients, do not administer diclofenac sodium topical solution to patients with this form of aspirin sensitivity and use with caution in patients with preexisting asthma.

5.11 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 on skin response to ultraviolet damage in humans are not known.

5.12 Eye Exposure

Avoid contact of diclofenac sodium topical solution 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.

5.13 Oral Nonsteroidal Anti-Inflammatory Drugs

Concomitant use of oral NSAIDs with diclofenac sodium topical solution 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 and an oral NSAID unless the benefit outweighs the risk and conduct periodic laboratory evaluations.

5.14 Corticosteroid Treatment

Diclofenac sodium topical solution cannot be expected to substitute for corticosteroids or to treat corticosteroid insufficiency. Abrupt discontinuation of corticosteroids may lead to exacerbation of corticosteroid-response illness. For patients on prolonged corticosteroid therapy, taper slowly if a decision is made to discontinue corticosteroids.

5.15 Inflammation

The pharmacological activity of diclofenac sodium topical solution in reducing inflammation, and possibly fever, may diminish the utility of these diagnostic signs in detecting complications of presumed noninfectious, painful conditions.

5.16 Hematological Effects

The effects of diclofenac sodium topical solution 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)].

Anemia is sometimes seen in patients receiving NSAIDs. This may be due to fluid retention, occult or gross GI blood loss, or an incompletely described effect upon erythropoiesis. Check hemoglobin or hematocrit of patients on diclofenac sodium topical solution if they exhibit any signs or symptoms of anemia or blood loss.

NSAIDs inhibit platelet aggregation and have been shown to prolong bleeding time in some patients. Unlike aspirin, their effect on platelet function is quantitatively less, of shorter duration and reversible. Carefully monitor patients receiving diclofenac sodium topical solution who may be adversely affected by alteration in platelet function, such as those with coagulation disorders or patients receiving anticoagulants.

5.17 Monitoring

Because serious GI tract ulcerations and bleeding can occur without warning symptoms in patients taking NSAIDs, monitor patients for signs or symptoms of GI bleeding. Check CBC and a chemistry profile periodically in patients on long-term treatment with NSAIDs. Discontinue diclofenac sodium topical solution if abnormal liver tests or renal tests persist or worsen.

6. ADVERSE REACTIONS

6.1 Clinical Studies Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of another drug cannot be directly compared to rates in the clinical trial of another drug and may not reflect the rates observed in practice.

The data described below reflect exposure to diclofenac sodium topical solution 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 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 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 vescicles (2%) and pruritus (4%). In one controlled trial, a higher rate of contact dermatitis with vescicles (4%) was observed after treatment of 152 subjects with the combination of diclofenac sodium topical solution 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 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 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 =1% of patients receiving diclofenac sodium topical solution, where the rate in the diclofenac sodium topical solution 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.

Treatment Group:	Diclofenac Sodium Topical Solution N=911	Topical Placebo N=332
Adverse Reaction *	N(%)	N(%)
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)

Table 1: Adverse Reactions occurring in =1% of patients treated with Diclofenac Sodium Topical Solution in placebo and oral diclofenac-controlled trials.

Application Site Reaction (not otherwise specified)

11 (1)

3 (<1)

* 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. 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

Drug interactions with the use of diclofenac sodium topical solution have not been studied. The following drug interactions [sections 7.1 to 7.7] are noted for oral diclofenac sodium.

7.1 Aspirin

When diclofenac is administered with aspirin, the binding of diclofenac to protein is reduced, although the clearance of free diclofenac is not altered. The clinical significance of this interaction is not known; however, as with other NSAIDs, concomitant administration of diclofenac and aspirin is not generally recommended because of the potential of increased adverse effects.

7.2 Anticoagulants

The effects of anticoagulants such as warfarin and NSAIDs on GI bleeding are synergistic, such that users of both drugs together have a risk of serious GI bleeding

higher than users of either drug alone.

7.3 ACE-Inhibitors

NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE) inhibitors. Consider this interaction in patients taking NSAIDs concomitantly with ACE-inhibitors.

7.4 Diuretics

Clinical studies, as well as postmarketing observations, have shown that NSAIDs can reduce the natriuretic effect of furosemide and thiazides in some patients. The response has been attributed to inhibition of renal prostaglandin synthesis. During concomitant therapy with NSAIDs, observe the patient closely for signs of renal failure [*see Warnings and Precautions (5.6)*], as well as to assure diuretic efficacy.

7.5 Lithium

NSAIDs have produced an elevation of plasma lithium levels and a reduction in renal lithium clearance. The mean minimum lithium concentration increased 15% and the renal clearance was decreased by approximately 20%. These effects have been attributed to inhibition of renal prostaglandin synthesis by the NSAID. Thus, when NSAIDs, including diclofenac, and lithium are administered concurrently, observe patients carefully for signs of lithium toxicity.

7.6 Methotrexate

NSAIDs have been reported to competitively inhibit methotrexate accumulation in rabbit kidney slices. This may indicate that they could enhance the toxicity of methotrexate. Use caution when NSAIDs, including diclofenac, are administered concomitantly with methotrexate.

7.7 Cyclosporine

Diclofenac, like other NSAIDs, may affect renal prostaglandins and increase the toxicity of certain drugs. Therefore, concomitant therapy with diclofenac may increase cyclosporine's nephrotoxicity. Use caution when diclofenac is administered concomitantly with cyclosporine.

7.8 Oral Nonsteroidal Anti-Inflammatory Drugs

Concomitant use of oral NSAIDs with diclofenac sodium topical solution 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%). Therefore, do not use combination therapy with diclofenac sodium topical solution and an oral NSAID unless the benefit outweighs the risk and conduct periodic laboratory evaluations.

7.9 Topical Treatments

Instruct patients that before applying sunscreen, insect repellant, lotion, moisturizer, cosmetics, or other topical medication to the same skin surface of the knee treated with

diclofenac sodium topical solution, they must wait until the treated area is completely dry.

8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

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

Teratogenic Effects:

There are no adequate and well-controlled studies of diclofenac sodium topical solution in pregnant women. Diclofenac sodium topical solution should not be used by pregnant women as its safe use has not been adequately determined and starting at 30 weeks gestation, diclofenac and other NSAIDs should be avoided by pregnant women as premature closure of the ductus arteriosus in the fetus may occur. Developmental studies in animals demonstrated that diclofenac sodium administration did not produce teratogenicity despite the induction of maternal toxicity and fetal toxicity in mice at doses up to 20 mg/kg/day (0.6-fold the maximum recommended human dose [MRHD] of 154 mg/day based on body surface area comparison), and in rats and rabbits at doses up to 10 mg/kg/day (approximately 0.6-fold and 1.3-fold the MRHD, respectively). Published reproductive and developmental studies of dimethyl sulfoxide (DMSO, the solvent used in diclofenac sodium topical solution) are equivocal as to potential teratogenicity.

Nonteratogenic Effects:

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

8.2 Labor and Delivery

The effects of diclofenac sodium topical solution on labor and delivery in pregnant women are unknown. In rat studies maternal exposure to diclofenac, as with other NSAID drugs, known to inhibit prostaglandin synthesis, increased the incidence of dystocia, delayed parturition, and decreased offspring survival.

8.3 Nursing Mothers

It is not known whether this drug is excreted in human milk; however, there is a case report in the literature indicating that diclofenac can be detected at low levels in breast milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from diclofenac sodium topical solution, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

Of the 911 patients treated with diclofenac sodium topical solution in seven controlled Phase 3 clinical trials, 444 subjects were 65 years of age and over. There was no agerelated difference in the incidence of adverse events. Of the 793 patients treated with diclofenac sodium topical solution 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 for this elderly population. As with any NSAID, use caution in treating the elderly (65 years and older) and it may be useful to monitor renal function since they are more likely to have decreased baseline renal function.

10. OVERDOSAGE

There have been no known experiences of overdose with diclofenac sodium topical solution.

Symptoms following acute NSAID overdose are usually limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which are generally reversible with supportive care. Gastrointestinal bleeding can occur. Hypertension, acute renal failure, respiratory depression and coma may occur, but are rare. Anaphylactoid reactions have been reported with therapeutic ingestion of NSAIDs, and may occur following an overdose.

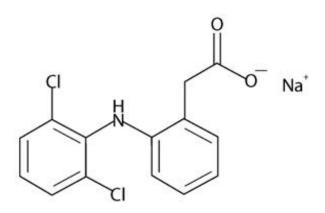
Manage patients using symptomatic and supportive care following an NSAID overdose. There are no specific antidotes. Emesis is not recommended due to a possibility of aspiration and subsequent respiratory irritation by DMSO contained in diclofenac sodium topical solution. Activated charcoal (60 to 100 g in adults, 1 to 2 g/kg in children) and/or osmotic cathartic may be indicated in patients seen within 4 hours of ingestion with symptoms or following a large overdose (5 to 10 times the usual dose). Forced diureses, alkalinization of urine, hemodialysis, or hemoperfusion may not be useful due to high protein binding.

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

11. DESCRIPTION

Diclofenac sodium topical solution is a clear, colorless to faintly pink-orange solution for topical application.

Diclofenac sodium topical solution contains 1.5% w/w 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. The molecular weight is 318.14. Its molecular formula is C $_{14}$ H $_{10}$ Cl $_2$ NNaO $_2$ and it has the following structural formula:



Each 1 mL of solution contains 16.05 mg of diclofenac sodium. In addition diclofenac sodium topical solution contains the following inactive ingredients: dimethyl sulfoxide USP (DMSO, 45.5% w/w), propylene glycol, alcohol, glycerin and purified water.

12. CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of action of diclofenac is similar to that of other nonsteroidal antiinflammatory drugs. Diclofenac inhibits the enzyme, cyclooxygenase (COX), an early component of the arachidonic acid cascade, resulting in the reduced formation of prostaglandins, thromboxanes and prostacylin. It is not completely understood how reduced synthesis of these compounds results in therapeutic efficacy.

12.2 Pharmacodynamics

Diclofenac, the active component of diclofenac sodium topical solution has antiinflammatory, anti-nociception, and antipyretic effects.

12.3 Pharmacokinetics

After topical administration to healthy human volunteers of single and multiple maximum doses of diclofenac sodium topical solution, 40 drops (approximately 1.2 mL) to each knee (80 drops total dose), the following diclofenac pharmacokinetic parameters were obtained: (see Table 2).

Table 2: Single-Dose (80 drops) and Multiple Dose (80 dropsfour times daily for 7 days) Diclofenac Sodium Topical SolutionPharmacokinetic Parameters

	Diclofena	ac sodium
Pharmacokinetic		Normal Adults [N=19] (Age: 18-55 years)
Parameters	Single Dose	Multiple Dose Four times daily for 7 days
AUC 0-t	177.5 ± 72.6 ng.h/mL	695.4 ± 348.9 ng.h/mL
AUC 0-inf	196.3 ± 68.5 ng.h/mL	745.2 ± 374.7 ng.h/mL
Plasma C _{max}	8.1 ± 5.9 ng/mL	19.4 ± 9.3 ng/mL

Plasma T _{max} (h)	11.0 ± 6.4	4.0 ± 6.5
Plasma t _{1/2} (h)	36.7 ± 20.8	79.0 ± 38.1
Kel (h ⁻¹)	0.024 ± 0.010	0.011 ± 0.004
CL/F (L/h)	244.7 ± 84.7 *	-

* Apparent total body clearance

<u>Absorption</u>

Diclofenac systemic exposure from diclofenac sodium topical solution 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).

<u>Distribution</u>

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.

<u>Metabolis m</u>

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 billary 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.

Special Populations

Pediatric: The pharmacokinetics of diclofenac sodium topical solution has not been investigated in pediatric patients.

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

12.4 Platelets

The effect of diclofenac sodium topical solution on platelet function was evaluated in 10 healthy human volunteers as a sub-study of a multiple-dose pharmacokinetic study [see *Pharmacokinetics (12.3)*]. Average (range) platelet aggregation time following stimulation with adenosine diphosphate, collagen, epinephrine and arachidonic acid was 101.3% (73.3 to 128.1), 99.8% (69.6 to 112.9), 109.9% (66.2 to 178.1) and 99.0% (15.5 to 126.6) of baseline value, respectively. These results indicate that there was no effect on

platelet aggregation after application of the maximum clinical dose for 7 days [see *Pharmacokinetics (12.3)*].

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

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 (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) did not increase neoplasm incidence.

In a photococarcinogenicity 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) 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. 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 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. 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 Pivotal Studies in Osteoarthritis of the Knee

The use of diclofenac sodium topical solution for the treatment of the signs and symptoms of osteoarthritis of the knee was evaluated in two double-blind controlled trials conducted in the U.S. and Canada, involving patients treated with diclofenac sodium topical solution at a dose of 40 drops four times a day for 12 weeks. Diclofenac sodium topical solution 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 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 3 and 4.

Table 3: Change in treatment outcomes after 12 weeks oftreatment in one study of efficacy of Diclofenac SodiumTopical Solution

	Study I Mean baseline score and mean change in efficacy variables after 12 weeks of treatment				
Efficacy Variable	Mean Baseline score	Diclofenac sodium N=154	Topical placebo * N=155	Topical vehicle [†] 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)		-15.7	-12.3	-12.1	
POHA (0-4)	2.3	-1.0	-0.4	-0.6	

* placebo formulation included 2.3% DMSO

+ vehicle formulation included 45.5% DMSO

Table 4: Change in treatment outcomes after 12 weeks of treatment in one study of efficacy of Diclofenac Sodium Topical Solution

Efficacy	Study II Mean baseline score and m efficacy variables a 12 weeks of treat		after	
Efficacy Variable	Mean Baseline score	Diclofenac sodium N=164	Topical vehicle * N=162	
WOMAC pain score (Likert 3.1, 0-20)	13	-5.9	-4.4	
WOMAC physical function	42	-15.3	-10.3	

(Likert 3.1, 0-68)			
PGA (0-4)	3.1	-1.3	-1.0

* vehicle formulation included 45.5% DMSO

16. HOW SUPPLIED/STORAGE AND HANDLING

Diclofenac Sodium Topical Solution 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 # 52565-002-05

Storage

Store at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled RoomTemperature].

17. PATIENT COUNSELING INFORMATION

See FDA-Approved Patient Labeling (Medication Guide and Instructions for Use).

17.1 Patient/Caregiver Instructions

Inform patients of the following information before initiating therapy with an NSAID and periodically during the course of ongoing therapy. Encourage patients to read the NSAID Medication Guide that accompanies each prescription dispensed prior to using diclofenac sodium topical solution [see Medication Guide and Instructions for Use].

17.2 Cardiovascular Effects

Diclofenac sodium topical solution, like other NSAIDs, may cause serious DV side effects, such as MI or stroke, which may result in hospitalization and even death. Although serious CV events can occur without warning symptoms, instruct patients to be alert for the signs and symptoms of chest pain, shortness of breath weakness, slurring of speech, and to ask for medical advice when observing any indicative sign or symptoms. Inform patients of the importance of this follow-up [see Warnings and Precautions (5.1)].

17.3 Gastrointestinal Effects

Diclofenac sodium topical solution, like other NSAIDs, may cause GI discomfort and, rarely, serious GI side effects, such as ulcers and bleeding, which may result in hospitalization and even death. Although serious GI tract ulcerations and bleeding can occur without warning symptoms, inform patients to be alert for the signs and symptoms of ulceration and bleeding, and to ask for medical advice when observing any indicative sign or symptoms including epigastric pain, dyspepsia, melena, and hematemesis. Instruct patients of the importance of this follow-up [see Warnings and *Precautions (5.2)*].

17.4 Hepatotoxicity

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If these occur, instruct patients to stop therapy with diclofenac sodium topical solution and seek immediate medical therapy [see Warnings and Precautions (5.3)].

17.5 Adverse Skin Reactions

Diclofenac sodium topical solution, like other NSAIDs, can cause serious systemic skin side effects such as exfoliative dermatitis, SJS, and TEN, which may result in hospitalizations and even death. Although serious systemic skin reactions may occur without warning, instruct patients to be alert for the signs and symptoms of skin rash and blisters, fever, or other signs of hypersensitivity such as itching, and to ask for medical advice when observing any indicative signs or symptoms [see Warnings and Precautions (5.8)].

Advise patients to stop diclofenac sodium topical solution immediately if they develop any type of generalized rash and contact their physicians as soon as possible.

Diclofenac sodium topical solution can cause a localized skin reaction at the application site. Advise patients to contact their physicians as soon as possible of they develop any type of localized application site rash.

Instruct patients not to apply diclofenac sodium topical solution 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 is completely dry before applying sunscreen, insect repellant, lotion, moisturizer, cosmetics, or other topical medication.

Instruct patients to minimize or avoid exposure of treated knee(s) to natural or artificial sunlight.

17.6 Weight Gain and Edema

Instruct patients to promptly report to their physician signs or symptoms of unexplained weight gain or edema following treatment with diclofenac sodium topical solution [see Warnings and Precautions (5.5)].

17.7 Anaphylactoid Reactions

Inform patients of the signs of an anaphylactoid reaction (e.g. difficulty breathing, swelling of the face or throat). If these occur, instruct patients to seek immediate emergency help [see Warnings and Precautions (5.7)].

17.8 Effects During Pregnancy

Instruct patients who are pregnant or intending to become pregnant not to use diclofenac sodium topical solution [see Use in Specific Populations (8.1) and Impairment of Fertility (13.1)].

17.9 Eye Exposure

Instruct patients to avoid contact of diclofenac sodium topical solution 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.

17.10 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 was applied until the knee(s) is completely dry.

Medication Guide for Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)

(See the end of this Medication Guide for a list of prescription NSAID medicines.)

What is the most important information I should know about medicines called Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)?

NSAID medicines may increase the chance of a heart attack or stroke that can lead to death.

This chance increases:

- with longer use of NSAID medicines
- in people who have heart disease

NSAID medicines should never be used right before or after a heart surgery called a "coronary artery bypass graft (CABG)."

NSAID medicines can cause ulcers and bleeding in the stomach and intestines at any time during treatment. Ulcers and bleeding:

- can happen without warning symptoms
- may cause death

The chance of a person getting an ulcer or bleeding increases with:

- taking medicines called "corticosteroids" and "anticoagulants"
- longer use
- smoking
- drinking alcohol
- older age
- having poor health

NSAID medicines should only be used:

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

What are Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)?

NSAID medicines 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 a Non-Steroidal Anti-Inflammatory Drug (NSAID)?

Do not take an NSAID medicine:

- if you had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAID medicine
- for pain right before or after heart bypass surgery

Tell your healthcare provider:

- about all of your medical conditions.
- about all of the medicines you take. NSAIDs and some other medicines can interact with each other and cause serious side effects. **Keep a list of your medicines to show to your healthcare provider and pharmacist.**
- if you are pregnant, NSAID medicines should not be used by pregnant women late in their pregnancy.
- if you are breastfeeding. Talk to your doctor.

What are the possible side effects of Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)?

 Serious side effects include: heart attack stroke highblood pressure heart failure from body swelling (fluid retention) kidney problems including kidney failure bleeding and ulcers in the stomach and intestine low red blood cells (anemia) life-threatening skin reactions life-threatening allergic reactions liver problems including liver failure asthma attacks in people who have asthma 	Other side effects include: stomach pain constipation diarrhea gas heartburn nausea vomiting dizziness
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Get emergency help right away if you have any of the following symptoms:

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

Stop your NSAID medicine and call your healthcare provider right away if you have any of the following symptoms:

- nausea
- more tired or weaker than usual
- itching
- your skin or eyes look yellow

- stomach pain
- flu-like symptoms
- 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 and legs, hands and feet •

These are not all the side effects with NSAID medicines. Talk to your healthcare provider or pharmacist for more information about NSAID medicines.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Other information about Non-Steroidal Anti-Inflammatory Drugs (NSAIDs):

- Aspirin is an NSAID medicine 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 of these NSAID medicines are sold in lower doses without a prescription (overthe-counter). Talk to your healthcare provider before using over-the-counter NSAIDs for more than 10 days.

Generic Name	Tradename
Celecoxib	Celebrex ®
	Flector, Cataflam®, Voltaren®, Arthrotec™ (combined with misoprostol), PENNSAID® (Diclofenac Sodium Topical
Diclofenac	Solution)
Diflunisal	Dolobid ®
Etodolac	Lodine®, Lodine® XL
Fenoprofen	Nalfon®, Nalfon® 200
Flurbiprofen	Ansaid®
Ibuprofen	Motrin®, Tab-Profen®, Vicoprofen® [*] (combined with hydrocodone), Cambunox™ (combined with oxycodone)
Indomethacin	Indocin®, Indocin® SR, Indo-Lemmon [™] , Indomethagan [™]
Ketoprofen	Oruvail®
Ketorolac	Toradol®
Mafanamia Acid	

NSAID medicines that need a prescription

	Ponstel®
Meloxicam	Mobic ®
Nabumetone	Relafen ®
Naproxen	Naprosyn®, Anaprox®, Anaprox® DS, EC- Naproxyn®, Naprelan®, Naprapac® (copackaged with lansoprazole)
Маргохен	
Oxaprozin	Daypro ®
Piroxicam	Feldene®
Sulindac	Clinoril®
Tolmetin	Tolectin®, Tolectin® DS, Tolectin® 600

 Vicoprofen contains the same dose of ibuprofen as over-the-counter (OTC) NSAID, and is usually used for less than 10 days to treat pain. The OTC NSAID label warns that long term continuous use may increase the risk of heart attack or stroke.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

17.11 Patient Instructions for Use

Diclofenac Sodium Topical Solution

Read the Medication Guide that comes with diclofenac sodium topical solution first. Be sure that you read, understand, and follow these Instructions for Use before you use diclofenac sodium topical solution for the first time.

Important: For use on the skin only (topical). Do not get diclofenac sodium topical solution in your eyes, nose or mouth.

Before you use diclofenac sodium topical solution:

- Apply diclofenac sodium topical solution 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 to treat pain from osteoarthritis in your knee or knees.
- Apply diclofenac sodium topical solution on clean dry skin that does not have any cuts, infections or rashes.
- Use diclofenac sodium topical solution 4 times each day on your knee or knees as prescribed.
- Your total dose for each knee is 40 drops of diclofenac topical solution, each time you use it.
- If you get diclofenac sodium topical solution 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:

Step 1. Wash your hands with soap and water before and after applying diclofenac sodium topical solution.

Step 2. Put 10 drops of diclofenac sodium topical solution **either** on your hand **or** directly on your knee (See **FigureA**).

Figure A or

Step 3. Spread diclofenac sodium topical solution evenly on the front, back and sides of your knee (see **FiguresB** 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.

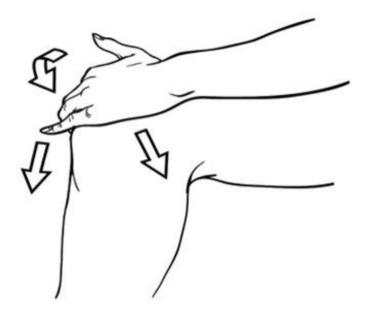




Figure C

Step 4. If your healthcare provider has prescribed diclofenac sodium topical solution for both knees, repeat steps 2 and 3 for the other knee.

After you use diclofenac sodium topical solution:

Wash your hands with soap and water right away after applying diclofenac sodium topical solution.

Do not

- touch the treated knee or allow another person to touch the knee treated with diclofenac sodium topical solution until your knee is completely dry.
- cover your knee with clothing until your knee is completely dry.
- put sunscreen, insect repellant, 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 on your knee(s).
- use heating pads or apply bandages to the skin where you have applied diclofenac sodium topical solution.
- 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?

• Store diclofenac sodium topical solution between 68°F to 77°F (20°C to 25°C).

Keep diclofenac sodium topical solution and all medicines out of the reach of children.

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

Brands mentioned are trademarks of their respective owners.

Manufactured by: Teligent Pharma, Inc . Buena, NJ 08310

PI-76115 Iss. 12/14

ACTIVICE Active Ingredients

Menthol 8.0%

ACTIVICE Purpose

Topical Analgesic

ACTIVICE Use

For the temporary relief of minor aches and pains of muscles and joints associated with:

- simple backache
- arthritis
- strains
- bruises
- sprains

ACTIVICE When Using This Product

When using this product

- use only as directed
- do not bandage tightly or use with heating pad
- do not apply to wounds or damaged skin

ACTIVICE Warning

For external use only.

Avoid contact with eyes.

Flammable: keep away from fire or flame.

ACTIVICE If Pregnant or Breastfeeding

ask a health professional before use.

ACTIVICE Stopping Use and Ask Doctor If

- condition worsens, or if symptoms persist for more than 7 days or clear up and occur again within a few days
- redness is present
- excessive irritation of the skin develops

ACTIVICE Keep out of reach of children

If swallowed, get medical helop or contact a Poison Control Center right away.

ACTIVICE Directions

Adults and children over 12 years:

apply directly onto affected area without the need to bandage repeat if necessary, but do not apply more than 4 times daily.

Children 12 years or younger: ask a doctor.

ACTIVICE Other Information

Store at room temperature.

ACTIVICE Inactive Ingredients

acrylic acid/vinyl ester copolymer, dimethylsulfone (MSM), eucalyptus oil, glucosamine sulfate, hydroxypropylcellulose, SD alcohol 39C, PEG-8 dimethicone, pentylene glycol, peppermint oil, triethanolamine, water (USP).

Rugby Cream Purpose

Capsaicin 0.025%

Rugby Cream Active Ingredient

Capsaicin 0.025%

Rugby Cream Uses

Rugby Cream 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.

Rugby Cream Directions

Rugby Cream Storage

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

Rugby Cream Inactive Ingredients

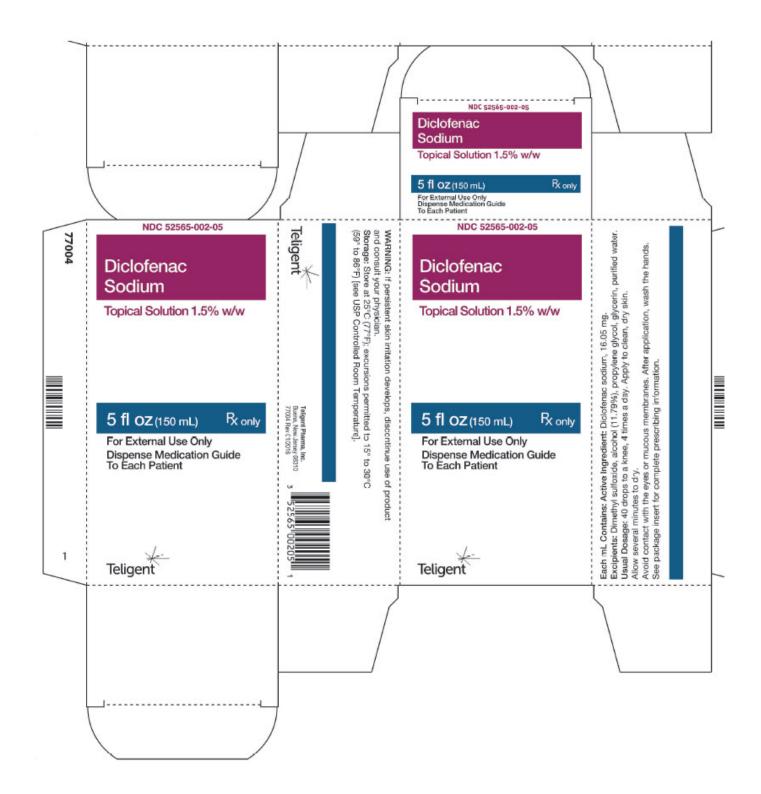
acrylates/C10-30 alkyl acrylate crosspolymer, cetyl acetate, methylparaben, PPG-20 methyl glucose ether distearate, propylene glycol, propylparaben, stearate-100, stearic acid, stearyl alcohol, triethanolamine, water

Rugby Cream Questions or Comments

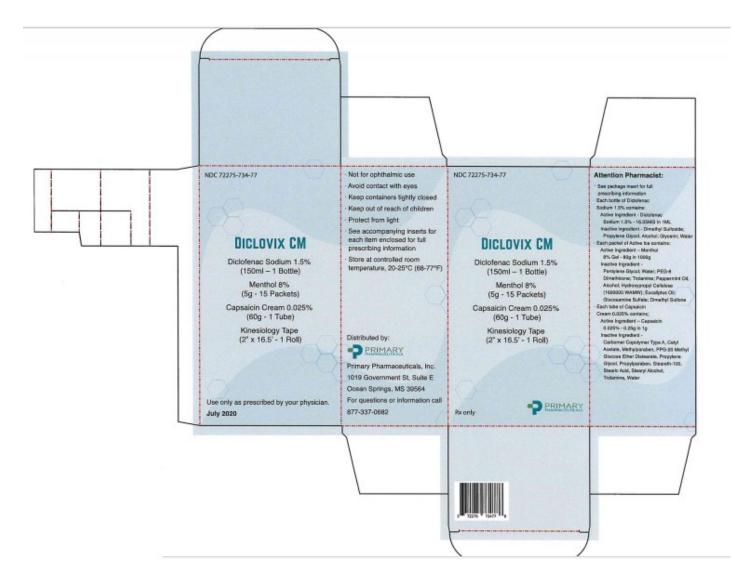
Call 1-800-645-2158 9 am - 5 pm ET, Monday - Friday

Principal Display Panel

Principal Display Panel - 150mL Bottle NDC 52565-002-05 5 fl. oz. (150mL) Diclofenac Sodium Topical Solution 1.5% w/w Rx Only For External Use Only Dispense Medication Guide To Each Patient



Diclovix CM Kit Carton



-	OVIX CN nac sodium	1 , with capsaicin cream and me	nthol ge	el kit	
Brodu	ıct Inform	action			
Produ	ct Type	HUMAN PRESCRIPTION DRUG	lte	m Code (Source)	NDC:72275-734
Packa	ging				
# Ite	m Code	Package Description		Marketing Start Date	Marketing End Date
1 NDC: 77		1 in 1 KIT; Type 1: Convenience Kit o Package	f Co-	08/26/2020	
Quant	ity of Pa	rts			
Part #		Package Quantity		Total Product Q	uantity
Part 1	1 BOTTLE		150 mL		
Part 2	1 PACKET		5.6 mL		
Part 3	0 TUBE		1 g		

Part 1 of 3					
		Μ			
diclofenac sod	ium solution				
Product Info	rmation				
Item Code (So		NDC:52565-002			
Route of Admin		TOPICAL			
Route of Autim					
Active Ingree	dient/Active	Moiety			
	Ingree	dient Name		Basis of Strength	Strength
DICLOFENAC SO UNII:14408QL0L1)		126297Q) (DICLOFENAC -		DICLOFENAC SODIUN	16.05 mg in 1 mL
Inactive Ingr	edients	In success to the success			Ctuc worth
DIMETHYL SULF	OXIDE (UNII: YO)	Ingredient Name			Strength
PROPYLENE GLY					
OLI		Q10/V3)			
		Q107737			
ALCOHOL (UNII: 3 Glycerin (Unii: 1	3K9958V90M) PDC6A3C0OX)	(10/13)			
ALCOHOL (UNII: 3	3K9958V90M) PDC6A3C0OX)	(10/13)			
ALCOHOL (UNII: 3 GLYCERIN (UNII: 1 WATER (UNII: 059	3K9958V90M) PDC6A3C0OX)				
ALCOHOL (UNII: 3 GLYCERIN (UNII: 1 WATER (UNII: 059 Packaging	3K9958V90M) PDC6A3C0OX) 9QF0KO0R)	ackage Description	Ma	rketing Start Date	Marketing End Date
ALCOHOL (UNII: 3 GLYCERIN (UNII: 1 WATER (UNII: 059 Packaging	3K9958V90M) PDC6A3C0OX) 9QF0KO0R) Pa		Ma		
ALCOHOL (UNII: 3 GLYCERIN (UNII: 1 WATER (UNII: 059 Packaging # Item Code	3K9958V90M) PDC6A3C0OX) 9QF0KO0R) Pa 150 mL in 1 BC	ackage Description	Ma		
ALCOHOL (UNII: 3 GLYCERIN (UNII: 1 WATER (UNII: 059 Packaging # Item Code 1 NDC:52565- 002-05	3K9958V90M) PDC6A3C0OX) 9QF0KO0R) P Pa 150 mL in 1 BC Co-Package	Ackage Description OTTLE; Type 1: Convenience Kit of	Ma		
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TOPICAL Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength MENTHOL (UNII: L7T1DEIP3A) (MENTHOL - UNII:L7T1DEIP3A) MENTHOL 80 mg in 1 mL Ingredient Name Strength Basis of Strength Strength Ingredient Name Strength Strength Strength Strength Strength Basis of Strength Strength Strength Strength Strength Strength Strength Strengt	Draduct Information					
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Active Ingredient/Active Molety Ingredient Name Basis of Strength Strength MENTHOL (UNII: LTT10EIP3A) (MENTHOL - UNII:LTT10EIP3A) MENTHOL 80 mg in 1 mL Inactive Ingredients Ingredient Name Strength Inactive Ingredients Strength PENTYLENE GLYCOL (UNII: SOCIAPSC) EUCAVPTUS OIL (UNII: STRADONI662) EUCAVPTUS OIL (UNII: STRADONI662) GLUCOSAMINE SULFATE (UNII: 19776400) TROLAMINE (UNII: 902K0353TK) EUF PEPERMINT OIL (UNII: AV092KU4HI) HYDROXYPROPYL CELULOSE (16000000 WAMW) (UNII: RFW2ET671P) EUDIMETHYL SULFONE (UNII: 914P0424FT) WMTR (UNII: 05SOF0KOOR) EUOIDATION EUOIDATION EUOIDATION Packaging Marketing Start Date Marketing End Date 1 DC:S3329-984 - S Em Lin 1 PACKET; Type 0: Not a Combination Product Marketing Start Date Marketing End Date Marketing Information Froduct Etation Marketing Start Date Marketing End Date Trinal Application Number or Monograph Marketing Start Date Marketing End Date OTC: monograph not Intal part348 03/04/2019 Etation Date Poduct Information Froduct Froduct Information Etation Date <td>ltem Code (Source)</td> <td colspan="5">(e) NDC:53329-984</td>	ltem Code (Source)	(e) NDC:53329-984				
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Ingredient Name Strength PENTLENE GLYCOL (UNII: 50C1307P2 G)	MENTHOL (UNII: L7T10EIP3A) (MEN	NTHOL - UNII:L7T10EIP3A)	MENTHOL	80 mg in 1 mL		
Ingredient Name Strength PENTLENE GLYCOL (UNII: 50C1307P2 G)						
Ingredient Name Strength PENTLENE GLYCOL (UNII: 50C1307P2 G)	Inactive Ingredients					
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GLUCOSAMINE SULFATE (UNII: 1FW7WLR731) PEG-8 DIMETHICONE (UNII: GLATT764OD) TROLAMINE (UNII: 903K9353TK) PEPPERMINT OIL (UNII: GAY092KU4JH) HYDROXYPROPVL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P) DIMETHYL SULFONE (UNII: 9H4P04Z4FT) WATER (UNII: 0590F0KO0R) ALCOHOL (UNII: 3K9958V90M)	PENTYLENE GLYCOL (UNII: 50C1.	307PZG)				
PEG-B DIMETHICONE (UNII: GIA7T764OD) TROLAMINE (UNII: 903K9353TK) PEPPERMINT OIL (UNII: N092KUJ4)() HYDROXYPROPYL CELLULOSE (160000 WAMW) (UNII: RFW2ET671P) DIMETHYL SULFONE (UNII: 9144PO4Z4FT) WATER (UNII: 059QF0K00R) ALCOHOL (UNII: 3K9958V90M) PACKaging # tem Code Package Description Marketing Start Date Packaging # tem Code Soft Network (UNII: 1 PACKET; Type 0: Not a Combination Product 1 105:53329-984- 5.6 mL in 1 PACKET; Type 0: Not a Combination Date Marketing Information Marketing Start Date Marketing Start Date Product Product Part 3 of 3 RUGBY CAPSAICIN EXTERNAL ANALGESIC capsaicin cream	EUCALYPTUS OIL (UNII: 2R040NI	562)				
TROLAMINE (UNII: 903K9353TK) Image: Constraint of the second	GLUCOSAMINE SULFATE (UNII: 1	FW7WLR731)				
PEPPERMINT OIL (UNII: AV092KU4JH) Image: Calibration of the second o	PEG-8 DIMETHICONE (UNII: GIA7	T764OD)				
HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P) DIMETHYL SULFONE (UNII: 9H4P04Z4FT) WATER (UNII: 0590F0KO0R) ALCOHOL (UNII: 3K9958V90M) Packaging Item Code Package Description Marketing Start Date Patkasing Information Marketing Category Application Number or Monograph Category Application Number or Monograph Marketing Start DTC monograph not part348 Value: Val	TROLAMINE (UNII: 903K93S3TK)					
biter thy L SULFONE (UNII: 9H4P042 4FT) WATER (UNII: 059QF0K00R) ALCOHOL (UNII: 3K9958V90M) The content of the content of t	PEPPERMINT OIL (UNII: AV092KU4	4JH)				
WATER (UNII: 059QF0K00R) Image: Comparison of the second seco	HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET67	1P)			
ALCOHOL (UNII: 3K9958V90M) Packaging Marketing Start Date Marke	DIMETHYL SULFONE (UNII: 9H4PC	04Z4FT)				
Packaging Marketing Start Marketing End Date 1 NDC:53329-984- 5.6 mL in 1 PACKET; Type 0: Not a Combination Marketing Start Marketing Component NDC:53329-984- 5.6 mL in 1 PACKET; Type 0: Not a Combination Marketing Start Marketing Component NDC:53329-984- 5.6 mL in 1 PACKET; Type 0: Not a Combination Marketing Start Marketing End Date Marketing Information Application Number or Monograph Otication Marketing Start Marketing End Date OTC monograph not final aprit348 03/04/2019 03/04/2019 Part 3 of 3 RUGBY CAPSAICIN EXTERNAL ANALGESIC capsaicin cream	WATER (UNII: 059QF0KO0R)					
# Item Code Package Description Marketing Start Date Marketing End Date 1 NDC:53329-984- 16 5.6 mL in 1 PACKET; Type 0: Not a Combination Product Image: Comparison of Comparison Image: Comparison of Comparison	ALCOHOL (UNII: 3K9958V90M)					
Item Code Package Description Date Date 1 NDC:53329-984- 5.6 mL in 1 PACKET; Type 0: Not a Combination Product Image: Comparison of Comparison Image: Comparison of Comp						
16 Product Image: Category Category Citation Number or Monograph Citation Date Marketing Start Date Marketing End Date 07C monograph not final part348 03/04/2019 03/04/2019 Part 3 of 3 RUGBY CAPSAICIN EXTERNAL ANALGESIC capsaicin cream			Markating Start	Markating End		
Marketing Category Application Number or Monograph Citation Marketing Start Date Marketing End Date OTC monograph not final part348 03/04/2019 03/04/2019 Part 3 of 3 RUGBY CAPSAICIN EXTERNAL ANALGESIC capsaicin cream Start St		ckage Description	-			
Marketing Category Application Number or Monograph Citation Marketing Start Date Marketing End Date OTC monograph not final part348 03/04/2019 03/04/2019 Part 3 of 3 RUGBY CAPSAICIN EXTERNAL ANALGESIC capsaicin cream Start St	1 NDC:53329-984- 5.6 mL in 1 PA		-			
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Part 3 of 3 RUGBY CAPSAICIN EXTERNAL ANALGESIC capsaicin cream Product Information	# Item Code Pa 1 NDC:53329-984- 16 5.6 mL in 1 PA Product	ACKET; Type 0: Not a Combination	-			
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RUGBY CAPSAICIN EXTERNAL ANALGESIC capsaicin cream Product Information	# Item Code Pa 1 NDC:53329-984- 16 5.6 mL in 1 PA Product Marketing Category Applica OTC monograph not part348	ACKET; Type 0: Not a Combination	Date Date	Date Marketing End		
capsaicin cream Product Information	# Item Code Pa 1 NDC:53329-984- 5.6 mL in 1 PA 16 Product Product Marketing Category Applica OTC monograph not final part348	ACKET; Type 0: Not a Combination	Date Date	Date Marketing End		
Product Information	# Item Code Pa 1 NDC:53329-984- 5.6 mL in 1 PA 16 Product Product Marketing Category Applica OTC monograph not final part348 Part 3 of 3 Part 3 of 3	ACKET; Type 0: Not a Combination	Date Date	Date Marketing End		
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Route of Administration TOPICAL	# Item Code Pa 1 NDC:53329-984- 5.6 mL in 1 PA 16 Product Product Marketing Category Applica OTC monograph not final part348 Part 3 of 3 RUGBY CAPSAICIN	ACKET; Type 0: Not a Combination	Date Date	Date Marketing End		
	# Item Code Pa 1 NDC:53329-984- 5.6 mL in 1 PA 16 Product Product Marketing Category Applica OTC monograph not final part348 Part 3 of 3 RUGBY CAPSAICIN	ACKET; Type 0: Not a Combination	Date Date	Date Marketing End		
	Item Code Pa 1 NDC:53329-984- 5.6 mL in 1 PA 16 Product Product Marketing Category Applica OTC monograph not final part348 Part 3 of 3 RUGBY CAPSAICIN capsaicin cream RUGBY CAPSAICIN capsaicin cream Product Information	ACKET; Type 0: Not a Combination	Date Date	Date Marketing End		

Active ingre	dient/Active N	•				
Ingredient Name			Basis of Strengt	h Strength		
APSAICIN (UNI	: S07O44R1ZM) (C/	APSAICIN - UNII:S0704	4R1Z M)	CAPSAICIN	0.25 mg in 1 g	
nactive Ing	redients					
		Ingredient N	lame		Strengt	
TEARYL ALCO	HOL (UNII: 2KR89141	-			j	
	E (UNII: 4Q43814HX	· · · ·				
	UNII: 4ELV7Z65AP)					
ROLAMINE (UN	III: 903K93S3TK)					
ROPYLENE GL	YCOL (UNII: 6DC9Q	167V3)				
ARBOMER CO	POLYMER TYPE A	(ALLYL PENTAERYTI		OSSLINKED) (UNII: 71DD5V	995L)	
1ETHYLPARABE	EN (UNII: A218C7H19	Т)				
PG-20 METHY	L GLUCOSE ETHE	R DISTEARATE (UNII:	0057334FA	3)		
ROPYLPARABE	N (UNII: Z8IX2SC10	CH)				
STEARETH-100	(UNII: 40H5W9UM8	7)				
WATER (UNII: 05	9QF0KO0R)					
Product Cha	aracteristics					
Color		white S	core			
Shape		S	ize			
lavor		li	mprint Co	de		
Contains						
Packaging						
[#] Item Code	Packa	Package Description		Marketing Start Date	Marketing End Date	
		e 0: Not a Combinatio	on			
	Product					
Marketing	g Informati	on				
Marketing Category		ion Number or Mo Citation	nograph	Marketing Start Date	Marketing End Date	
DTC monograph	not part348			03/01/2012		
Marketing	g Informati	on				
		ion Number or Mo Citation	nograph	Marketing Start Date	Marketing End Date	
Marketing Category						
				08/26/2020		

Establishment						
Name	Address	ID/FEI	Business Operations			
Rainbow Gold		800695152	repack(72275-734)			

Revised: 2/2021

Primary Pharmaceuticals, Inc