[Trade Name]
(Lidocaine and Tetracaine) 7%/7% Cream

DESCRIPTION

[Trade Name] (lidocaine and tetracaine) 7%/7% cream is a topical local anesthetic cream that forms a pliable peel on the skin when exposed to air. The drug formulation is an emulsion in which the oil phase is a 1:1 eutectic mixture of lidocaine 7% and tetracaine 7%. The eutectic mixture has a melting point below room temperature and therefore both local anesthetics exist as a liquid oil rather than as crystals. The net weight of lidocaine is 2.1 g and of tetracaine is 2.1 g per tube.

Lidocaine is chemically designated as acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl) and has an octanol:water partition ratio of 182 at pH 7.3. The molecular weight of lidocaine is 234.3, and the molecular formula is C_{14}H_{22}N_{2}O. The structural formula is:

\[
\begin{align*}
\text{CH}_3 & \quad \text{NHCOC}_2\text{H}_5\text{N} \left(\text{C}_2\text{H}_5\right)_2 \\
\text{CH}_3 & \quad \text{NHCOC}_2\text{H}_5\text{N} \left(\text{C}_2\text{H}_5\right)_2
\end{align*}
\]

Tetracaine is chemically designated as 2-dimethylaminoethyl 4-n-butylaminobenzoate and has an octanol:water partition ratio of 5370 at pH 7.3. The molecular weight of tetracaine is 264.4, and the molecular formula is C_{15}H_{24}N_{2}O_{2}. The structural formula is:

\[
\begin{align*}
\text{CH}_3(\text{CH}_2)_3\text{NH} & \quad \text{COOCH}_2\text{CH}_2\text{N} \left(\text{CH}_3\right)_2 \\
\text{CH}_3(\text{CH}_2)_3\text{NH} & \quad \text{COOCH}_2\text{CH}_2\text{N} \left(\text{CH}_3\right)_2
\end{align*}
\]

Each gram of [Trade Name] contains lidocaine 70 mg and tetracaine 70 mg in a 1:1 eutectic mixture and it also contains the following inactive ingredients: dibasic calcium phosphate, methylparaben, petrolatum, polyvinyl alcohol, propylparaben, sorbitan monoopalmitate and water.
CLINICAL PHARMACOLOGY

Mechanism of Action: Lidocaine is an amide-type local anesthetic agent and tetracaine is an ester-type local anesthetic agent. Both lidocaine and tetracaine block sodium ion channels required for the initiation and conduction of neuronal impulses- which, in certain instances, results in local anesthesia. When applied to intact skin, [Trade Name] provides local dermal analgesia by the release of lidocaine and tetracaine from the peel into the skin.

Pharmacodynamics:

Duration of analgesia was evaluated using a pinprick test in 40 adult volunteers. The median duration of analgesia was 11 hours. There was no difference between the 30-minute and 60-minute [Trade Name] application periods with respect to the mean for time to return of sensation. However, 55% of [Trade Name] treated subjects still reported diminished sensation at the end of the 13-hour study period.

Pharmacokinetics:

Absorption: The amount of lidocaine and tetracaine systemically absorbed from [Trade Name] is directly related to both the duration of application and the surface area over which it is applied, Table 1. Application of 59 g of [Trade Name] over 400 cm² for up to 120 minutes to adults produces peak plasma concentrations of lidocaine of 220 ng/mL. Tetracaine plasma levels were not measurable (<0.9 ng/mL). Systemic exposure to lidocaine, as measured by C_max and AUC_0-24, was proportional to the application area, and increased with application time up to 60 minutes.

Table 1. Absorption of lidocaine and tetracaine following application of [Trade Name]

<table>
<thead>
<tr>
<th>[Trade Name] (g)</th>
<th>Area (cm²)</th>
<th>Age Range (yr)</th>
<th>n</th>
<th>Application Time (min)</th>
<th>Drug Content (g)</th>
<th>Mean C_max (ng/mL)</th>
<th>Mean T_max (hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>400</td>
<td>18 - 64</td>
<td>4</td>
<td>30</td>
<td>Lidocaine, 1.5</td>
<td>49</td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tetracaine, 1.5</td>
<td>&lt; 0.9</td>
<td>na</td>
</tr>
<tr>
<td>33</td>
<td>400</td>
<td>18 - 64</td>
<td>4</td>
<td>60</td>
<td>Lidocaine, 2.3</td>
<td>96</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tetracaine, 2.3</td>
<td>&lt; 0.9</td>
<td>na</td>
</tr>
<tr>
<td>31</td>
<td>400</td>
<td>≥ 65</td>
<td>6</td>
<td>60</td>
<td>Lidocaine, 2.2</td>
<td>48</td>
<td>3.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tetracaine, 2.2</td>
<td>&lt; 0.9</td>
<td>na</td>
</tr>
</tbody>
</table>

na = not applicable
**Distribution:** When lidocaine is administered intravenously to healthy volunteers, the steady-state volume of distribution is approximately 0.8 to 1.3 L/kg. At lidocaine concentrations observed following the recommended product application, approximately 75% of lidocaine is bound to plasma proteins, primarily alpha-1-acid glycoprotein. At much higher plasma concentrations (1 to 4 mg/mL of free base) the plasma protein binding of lidocaine is concentration dependent. Lidocaine crosses the placental and blood brain barriers, presumably by passive diffusion. CNS toxicity may typically be observed around 5000 ng/mL of lidocaine; however, a small number of patients reportedly may show signs of toxicity at approximately 1000 ng/mL.

Volume of distribution and protein binding have not been determined for tetracaine due to rapid hydrolysis in plasma.

**Metabolism:** It is not known if lidocaine or tetracaine is metabolized in the skin. Lidocaine is metabolized rapidly by the liver to a number of metabolites, including monoethylglycinexylidide (MEGX) and glycinexylidide (GX), both of which have pharmacologic activity similar to, but less potent than that of lidocaine. The major metabolic pathway of lidocaine, sequential N-deethylation to MEGX and GX, is primarily mediated by CYP1A2 with a minor role of CYP3A4. The metabolite, 2,6-xylidine, has unknown pharmacologic activity. Following intravenous administration of lidocaine, MEGX and GX concentrations in serum range from 11% to 36% and from 5% to 11% of lidocaine concentrations, respectively. Serum concentrations of MEGX were about one-third the serum lidocaine concentrations.

Tetracaine undergoes rapid hydrolysis by plasma esterases. Primary metabolites of tetracaine include para-aminobenzoic acid and diethylaminoethanol, both of which have an unspecified activity.

**Elimination:** The half-life of lidocaine elimination from the plasma following intravenous administration is approximately 1.8 hr. Lidocaine and its metabolites are excreted by the kidneys. More than 98% of an absorbed dose of lidocaine can be recovered in the urine as metabolites or parent drug. Less than 10% of lidocaine is excreted unchanged in adults, and approximately 20% is excreted unchanged in neonates. The systemic clearance is approximately 8–10 mL/min/kg. During intravenous studies, the elimination half-life of lidocaine was statistically significantly longer in elderly patients (2.5 hours) than in younger patients (1.5 hours).

The half-life and clearance for tetracaine has not been established for humans, but hydrolysis in the plasma is rapid.
Special Populations

Elderly: After application of 31g of [Trade Name] over 400 cm² for 60 minutes, mean peak plasma levels of lidocaine were 48 ng/mL for elderly patients (>65 years of age, mean 68.0 ± 3.2 years, n = 6). These levels are similar to or lower than those for younger patients receiving similar amounts of [Trade Name].

Cardiac, Renal and Hepatic Impairment: No specific pharmacokinetic studies were conducted. The half-life of lidocaine may be increased in patients with cardiac or hepatic dysfunction. There is no established half-life for tetracaine due to rapid hydrolysis in the plasma.

CLINICAL STUDIES
In four clinical trials, adult patients were treated with [Trade Name] and/or placebo prior to undergoing a superficial dermatologic procedure. Drug was applied for 20 or 30 minutes for dermatologic procedures such as dermal filler injection, pulsed dye laser therapy, and facial laser resurfacing. Drug was applied for 60 minutes for laser-assisted tattoo removal. Treatment with [Trade Name] resulted in statistically significantly less pain compared to placebo treatment, as measured by a 100 mm visual analog scale (VAS). Patient efficacy ratings are shown in Table 2.

Table 2. Summary of patient evaluations following application of [Trade Name] and placebo

<table>
<thead>
<tr>
<th>Dermatologic Procedure</th>
<th>Mean VAS score</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[Trade Name]</td>
</tr>
<tr>
<td><strong>20 Min Application</strong></td>
<td></td>
</tr>
<tr>
<td>Pulsed Dye Laser Therapy (N=80)</td>
<td>16</td>
</tr>
<tr>
<td><strong>30 Min Application</strong></td>
<td></td>
</tr>
<tr>
<td>Non-Ablative Laser Facial Resurfacing (N=54)</td>
<td>21</td>
</tr>
<tr>
<td>Dermal Filler Injections (N=70)</td>
<td>24</td>
</tr>
<tr>
<td><strong>60 Min Application</strong></td>
<td></td>
</tr>
<tr>
<td>Laser-Assisted Tattoo Removal (N=62)</td>
<td>39</td>
</tr>
</tbody>
</table>

In a trial of [Trade Name] in pediatric patients aged 5-17 years undergoing venipuncture (blood draw or intravenous line placement), [Trade Name] applied for 30 minutes failed to show efficacy over placebo in reducing the pain associated with the procedure.

INDICATION AND USAGE
[Trade Name] is indicated for use on intact skin in adults to provide topical local analgesia for superficial dermatological procedures such as dermal filler injection, pulsed dye laser therapy, facial laser resurfacing, and laser-assisted tattoo removal.

CONTRAINDICATIONS
[Trade Name] is contraindicated in patients with a known history of sensitivity to lidocaine or tetracaine, or local anesthetics of the amide or ester type. [Trade Name] is also contraindicated in patients with para-
aminobenzoic acid (PABA) hypersensitivity and in patients with a known history of sensitivity to any other component of the product.

**WARNINGS**
Application of [Trade Name] for longer times than those recommended or application of [Trade Name] over larger surface areas than those recommended could result in absorption of lidocaine and tetracaine at doses that could lead to serious adverse effects (See OVERDOSAGE section).

Even *used* [Trade Name] may contain a large amount of lidocaine and tetracaine. The potential exists for a small child or pet to suffer serious adverse effects from chewing or ingesting new or used [Trade Name], although this risk with [Trade Name] has not been evaluated. After use, the child-proof cap should be put back securely on the tube. It is important to store and dispose of [Trade Name] out of the reach of children and pets (See HANDLING AND DISPOSAL section).

**Methemoglobinemia:**
Several local anesthetics, including tetracaine, have been associated with methemoglobinemia. The risk of methemoglobinemia is greatest for patients with congenital or idiopathic methemoglobinemia, and infants under the age of twelve months who are receiving treatment with methemoglobin-inducing agents.

Very young patients or patients with glucose-6-phosphate dehydrogenase deficiencies are more susceptible to methemoglobinemia.

Patients taking drugs associated with drug-induced methemoglobinemia such as sulfonamides, acetaminophen, acetanilide, aniline dyes, benzocaine, chloroquine, dapsone, naphthalene, nitrates and nitrites, nitrofurantoin, nitroglycerin, nitroprusside, pamaquine, para-aminosalicylic acid, phenacetin, phenobarbital, phenytoin, primaquine, and quinine are also at greater risk for developing methemoglobinemia.

There were no reports of methemoglobinemia in the trials of [Trade Name]. However, providers are cautioned to carefully apply [Trade Name] to ensure that the doses, areas of application, and duration of application are consistent with those recommended for the intended population.

**PRECAUTIONS**

**General:** [Trade Name] should be used with caution in patients who may be more sensitive to the systemic effects of lidocaine and tetracaine, including the acutely ill or debilitated.

When [Trade Name] is used concomitantly with other products containing local anesthetic agents, the amount absorbed from all formulations should be considered since the systemic toxic effects are thought to be additive and potentially synergistic with lidocaine and tetracaine.

Allergic or anaphylactoid reactions associated with lidocaine, tetracaine, or other components of [Trade Name] can occur. They are characterized by urticaria, angioedema, bronchospasm, and shock. If an allergic reaction occurs, it should be managed by conventional means.
Contact of [Trade Name] with the eyes should be avoided based on the findings of severe eye irritation with the use of similar products in animals. Also, the loss of protective reflexes may predispose to corneal irritation and potential abrasion. If eye contact occurs, immediately wash out the eye with water or saline and protect the eye until sensation returns.

[Trade Name] is not recommended for use on mucous membranes or on areas with a compromised skin barrier because these uses have not been adequately studied. Application to broken or inflamed skin may result in toxic blood concentrations of lidocaine and tetracaine from increased absorption.

Patients with severe hepatic disease or pseudocholinesterase deficiency, because of their inability to metabolize local anesthetics normally, are at a greater risk of developing toxic plasma concentrations of lidocaine and tetracaine.

Lidocaine has been shown to inhibit viral and bacterial growth. The effect of [Trade Name] on intradermal injections of live vaccines has not been determined.

**Information for Patients:** Patients should be advised that topical application of local anesthetics such as [Trade Name] may lead to diminished or blocked sensation in the treated skin. For this reason, patients should be instructed to avoid trauma to the treated area. Trauma can result from scratching or rubbing before complete sensation has returned, or from exposure to extreme temperatures or to excessive sunlight.

**Drug Interactions:**

**Antiarrhythmic Drugs:** [Trade Name] should be used with caution in patients receiving Class I antiarrhythmic drugs (such as tocainide and mexiletine) since the systemic toxic effects are thought to be additive and potentially synergistic with lidocaine and tetracaine.

**Local Anesthetics:** When [Trade Name] is used concomitantly with other products containing local anesthetic agents, the amount absorbed from all formulations should be considered since the systemic toxic effects are thought to be additive and potentially synergistic with lidocaine and tetracaine.

**Carcinogenesis, Mutagenesis, Impairment of Fertility:**

**Carcinogenesis:** Long-term studies in animals have not been performed to evaluate the carcinogenic potential of either lidocaine or tetracaine.

**Mutagenesis:** The mutagenic potential of lidocaine base and tetracaine base has been determined in the in vitro Ames Bacterial Reverse Mutation Assay, the in vitro chromosome aberration assay using Chinese hamster ovary cells, and the in vivo mouse micronucleus assay. Lidocaine was negative in all three assays. Tetracaine was negative in the in vitro Ames assay and the in vivo mouse micronucleus assay. In the in vitro chromosome aberration assay, tetracaine was negative in the absence of metabolic activation, and equivocal in the presence of metabolic activation.
Impairment of Fertility: Lidocaine did not affect fertility in female rats when given via continuous subcutaneous infusion via osmotic minipumps up to doses of 250 mg/kg/day (1500 mg/m² or 2-fold higher than the single dermal administration [SDA]). Although lidocaine treatment of male rats increased the copulatory interval and led to a dose-related decreased homogenization resistant sperm head count, daily sperm production, and spermatogenic efficiency, the treatment did not affect overall fertility in male rats when given subcutaneous doses up to 60 mg/kg (360 mg/m² or <1-fold the SDA). Tetracaine did not affect fertility in male or female rats when given subcutaneous doses up to 7.5 mg/kg (45 mg/m² or <1-fold the SDA). Multiples of exposure are based on an SDA of 1 g of [Trade Name] applied to 10 cm² for 60 minutes to a 60 kg person (645 mg/m²).

Use in Pregnancy:

Teratogenic Effects: Pregnancy Category B. Lidocaine was not teratogenic in rats at doses up to 60 mg/kg (360 mg/m² or <1-fold the SDA), nor in rabbits at doses up to 15 mg/kg (180 mg/m² or <1-fold the SDA). Tetracaine was not teratogenic in rats given subcutaneous doses up to 10 mg/kg (60 mg/m²), nor in rabbits at doses up to 5 mg/kg (60 mg/m² or <1-fold the SDA), or in rabbits up to 5 mg/kg (60 mg/m² or <1-fold the SDA). [Trade Name] active components (lidocaine and tetracaine given as a 1:1 eutectic mixture) was not teratogenic in rats (60 mg/m² or <1-fold the SDA) or rabbits (120 mg/m² or <1-fold the SDA).

Nonteratogenic Effects: Lidocaine containing 1:100,000 epinephrine at a dose of 6 mg/kg (<1-fold the SDA) injected into the masseter muscle of the jaw or into the gum of the lower jaw of Long-Evans hooded pregnant rats on gestation day 11, lead to developmental delays in neonatal behavior among offspring. Developmental delays were observed for negative geotaxis, static righting reflex, visual discrimination response, sensitivity and response to thermal and electrical shock stimuli, and water maze acquisition. The developmental delays of the neonatal animals were transient with responses becoming comparable to untreated animals later in life. The clinical relevance of the animal data is uncertain.

Pre- and postnatal maturational, behavioral, or reproductive development was not affected by maternal subcutaneous administration of tetracaine during gestation and lactation up to doses of 7.5 mg/kg (45 mg/m² or <1-fold the SDA).

No adequate and well-controlled studies have been conducted in pregnant women. Because animal studies are not always predictive of human response, [Trade Name] should be used during pregnancy only if the potential benefit justifies risk to the fetus.

Labor and Delivery: Neither lidocaine nor tetracaine is contraindicated in labor and delivery. In humans, the use of lidocaine for labor conduction analgesia has not been associated with an increased incidence of adverse fetal effects either during delivery or during the neonatal period. Tetracaine has also been used as a conduction anesthetic for cesarean section without apparent adverse effects on offspring. Should [Trade Name] be used concomitantly with other products containing lidocaine and/or tetracaine, total doses contributed by all formulations must be considered.

Nursing Mothers: Lidocaine is excreted into human milk and it is not known if tetracaine is excreted into human milk. Therefore, caution should be exercised when [Trade Name] is administered to a nursing
mother since the milk:plasma ratio of lidocaine is 0.4 and is not determined for tetracaine. In a prior report, when lidocaine was used as an epidural anesthetic for cesarean section in 27 women, a milk:plasma ratio of 1.07 ±0.82 was found by using AUC values. Following single dose administration of 20 mg of lidocaine for a dental procedure, the point value milk:plasma ratio was similarly reported as 1.1 at five to six hours after injection. Thus, the estimated maximum total daily dose of lidocaine delivered to the infant via breast milk would be approximately 36 mcg/kg. Based on these data and the low concentrations of lidocaine and tetracaine found in the plasma after topical administration of [Trade Name] in recommended doses, the small amount of these primary compounds and their metabolites that would be ingested orally by a suckling infant is unlikely to cause adverse effects (see CLINICAL PHARMACOLOGY, Pharmacokinetics).

**Pediatric Use:** Safety and effectiveness of [Trade Name] in pediatric patients have not been established.

**Use in Geriatric Patients:** Of the total number of subjects treated with [Trade Name] in controlled clinical studies, 161 subjects were 65 years and older, while 50 subjects were over 75 years of age. No overall differences in safety and effectiveness were observed between these subjects and younger subjects. However, increased sensitivity in individual patients aged 65 years and older cannot be ruled out.

**ADVERSE REACTIONS**
[Trade Name] has been evaluated for safety in 2159 persons undergoing a superficial dermal procedure. [Trade Name] was studied in 11 placebo-controlled and 1 active-controlled trial, and in open-label safety trials. All 2159 persons were exposed to only a single application of [Trade Name].

Adverse reactions were assessed by collecting spontaneously reported adverse events, and observations made on formal evaluation of the skin for specific reactions.

Because clinical trials are conducted under widely varying conditions, the frequencies of adverse reactions observed in the clinical trials of a drug may not reflect the frequencies observed in practice. However, the adverse reaction information from clinical trials does provide a basis for identifying the adverse events that appear to be related to drug use and for approximating their incidence in clinical practice.

**Most common adverse events in clinical trials**

**Localized Reactions:** During or immediately after treatment with [Trade Name], the skin at the site of treatment may develop erythema, blanching or edema. In clinical studies, the most common local reactions were erythema (47%), skin discoloration (e.g., blanching, ecchymosis, and purpura) (16%), and edema (14%). These reactions were generally mild and transient, resolving spontaneously soon after treatment. There were no serious adverse events. However, one patient withdrew due to burning pain at the treatment site.

**Other localized reactions:** The following dermal adverse events occurred in 1% or less of [Trade Name]-treated patients: ecchymosis, petechial rash, vesiculobullous rash, perifollicular erythema, perifollicular edema, pruritus, rash, maculopapular rash, dry skin, contact dermatitis, and acne.
**Systemic (Dose-Related) Reactions:** Across all trials, 19 subjects experienced a systemic adverse event, 15 of who were treated with [Trade Name] Peel and 4 with placebo. The frequency of systemic adverse events was greater for the [Trade Name] group (1%) than the placebo group (0.3%). The most common systemic adverse events were headache, vomiting, dizziness, and fever, all of which occurred with a frequency of <1%. Other systemic reactions were syncope, nausea, confusion, dehydration, hyperventilation, hypotension, nervousness, paresthesia, pharyngitis, stupor, pallor, and sweating.

Overall, systemic adverse reactions following appropriate use of [Trade Name] are unlikely, due to the small dose absorbed (see CLINICAL PHARMACOLOGY, Pharmacokinetics). Systemic adverse effects of lidocaine and tetracaine are similar in nature to those observed with other amide and ester local anesthetic agents, including CNS excitation and/or depression (light-headedness, nervousness, apprehension, euphoria, confusion, dizziness, drowsiness, tinnitus, blurred or double vision, vomiting, sensation of heat, cold or numbness, twitching, tremors, convulsions, unconsciousness, respiratory depression and arrest). Excitatory CNS reactions may be brief or not occur at all, in which case the first manifestation may be drowsiness merging into unconsciousness. Signs of CNS toxicity may start at plasma concentrations of lidocaine as low as 1000 ng/mL. The plasma concentrations at which tetracaine toxicity may occur are less well characterized; however, systemic toxicity with tetracaine is thought to occur with much lower plasma concentrations compared with lidocaine. The toxicity of co-administered local anesthetics is thought to be at least additive. Cardiovascular manifestations may include bradycardia, hypotension and cardiovascular collapse leading to arrest.

**OVERDOSAGE**
Application of 59 g of [Trade Name] over 400 cm² for up to 120 minutes to adults produces peak plasma concentrations of lidocaine of 220 ng/mL. Toxic levels of lidocaine (>5000 ng/mL) cause CNS toxicity, including the risk of seizure. Signs of CNS toxicity may start at plasma concentrations of lidocaine as low as 1000 ng/mL, and the risk of seizures generally increases with increasing plasma levels. Very high levels of lidocaine can cause respiratory arrest, coma, decreases in cardiac output, total peripheral resistance and mean arterial pressure, ventricular arrhythmias and cardiac arrest. Tetracaine is associated with a profile of systemic CNS and cardiovascular adverse events similar to lidocaine, although toxicity associated with tetracaine is thought to occur at lower doses compared to lidocaine. The toxicity of co-administered local anesthetics is thought to be at least additive. In the absence of massive topical overdose or oral ingestion, other etiologies for the clinical effects or overdose from other sources of lidocaine, tetracaine or other local anesthetics should be considered. The management of overdose includes close monitoring, supportive care and symptomatic treatment. Dialysis is of negligible value in the treatment of acute overdose of lidocaine or tetracaine.

**DOSAGE AND ADMINISTRATION**
[Trade Name] should only be applied to intact skin.

For use in adults only.

- For superficial dermatological procedures such as dermal filler injection or facial laser ablation, apply [Trade Name] to intact skin for 20-30 minutes prior to the procedure.
• For superficial dermatological procedures such as laser-assisted tattoo removal, apply [Trade Name] to intact skin for 60 minutes prior to the procedure.

The dose of [Trade Name] that provides effective local dermal analgesia depends on the duration of the application. Although not specifically studied, a shorter duration of application may result in a less complete dermal analgesia or a shorter duration of adequate dermal analgesia.

The amount (length) of study drug that should be dispensed is determined by the size of the area to be treated (see Table 3). Squeeze out and measure the amount of [Trade Name] that approximates the amount required to achieve proper coverage. Then spread [Trade Name] evenly and thinly (approximately 1 mm or the thickness of a dime) across the treatment area using a flat-surfaced tool such as a metal spatula or tongue depressor. After waiting the required application time, remove the [Trade Name] by grasping a free-edge with your fingers and pulling it away from the skin.

<table>
<thead>
<tr>
<th>Surface Area of Treatment Site (cm²)</th>
<th>Length of [Trade Name] for 1 mm Thickness (cm)</th>
<th>Weight of [Trade Name] Dispensed (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>6</td>
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<td>350</td>
<td>106</td>
<td>46</td>
</tr>
<tr>
<td>400</td>
<td>121</td>
<td>53</td>
</tr>
</tbody>
</table>

If skin irritation or a burning sensation occurs during application, remove [Trade Name].
HANDLING AND DISPOSAL
Hands should be washed after handling [Trade Name], and eye contact with [Trade Name] should be avoided. Access to [Trade Name] by children or pets should be prevented during usage and storage of the product.

Used [Trade Name] tubes should be disposed of immediately. **Discard used [Trade Name] in a location that prevents accidental ingestion by children or pets.**

HOW SUPPLIED
[Trade Name] (lidocaine and tetracaine) 7%/7% cream is available as the following:

NDC yyyy-yyyy-yy  30 gram tube

Store in a refrigerator, temperature 2-8°C (36-46°F). Do not freeze.

Manufactured for:
ZARS, Inc.
Salt Lake City, UT  84119

Manufactured by:
Ortho Pharmaceutical, Inc.
Manati, Puerto Rico 00674

[Trade Name] is a trademark of ZARS, Inc.
© Copyright 2006 ZARS, Inc.
Rev. 06/06
Usual Dosage: Apply to intact skin. See package insert for full prescribing information and directions for use.

Contains: Each gram of cream contains 70 mg of lidocaine (net weight: 2.1 g) and 70 mg of tetracaine (net weight: 2.1 g) and the following inactive ingredients: dibasic calcium phosphate, methylparaben, petrolatum, polyvinyl alcohol, propylparaben, purified water, and sorbitan monopalmitate.

Manufactured by:
Ortho Pharmaceutical, Inc.
Manati, Puerto Rico 00674

For:
ZARS, Inc., Salt Lake City, Utah 84119

© 2006 Made in USA

Dimensions: N/A

To Open Tube: Push cap in and turn counterclockwise.

Warning: Keep used and unused product out of reach of children. Wash hands after use. Avoid contact with eyes.

Rx only
For topical use only.
Not for home use by patient.

Contains:
Each gram of cream contains 70 mg of lidocaine (net weight: 2.1 g) and 70 mg of tetracaine (net weight: 2.1 g) and the following inactive ingredients: dibasic calcium phosphate, methylparaben, petrolatum, polyvinyl alcohol, propylparaben, purified water, and sorbitan monopalmitate.

Manufactured by:
Ortho Pharmaceutical, Inc.
Manati, Puerto Rico 00674

For:
ZARS, Inc., Salt Lake City, Utah 84119

© 2006 Made in USA

Do Not Freeze.

Usual Dosage: Apply to intact skin. See package insert for full prescribing information and directions for use.

Contains: Each gram of cream contains 70 mg of lidocaine (net weight: 2.1 g) and 70 mg of tetracaine (net weight: 2.1 g) and the following inactive ingredients: dibasic calcium phosphate, methylparaben, petrolatum, polyvinyl alcohol, propylparaben, purified water, and sorbitan monopalmitate.

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Do Not Freeze.

Usual Dosage: Apply to intact skin. See package insert for full prescribing information and directions for use.

Contains: Each gram of cream contains 70 mg of lidocaine (net weight: 2.1 g) and 70 mg of tetracaine (net weight: 2.1 g) and the following inactive ingredients: dibasic calcium phosphate, methylparaben, petrolatum, polyvinyl alcohol, propylparaben, purified water, and sorbitan monopalmitate.

Manufactured by:
Ortho Pharmaceutical, Inc.
Manati, Puerto Rico 00674

For:
ZARS, Inc., Salt Lake City, Utah 84119

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Do Not Freeze.
Tradename™
(Lidocaine and Tetracaine) 7% / 7% Cream

Rx only
For topical use only.
Not for home use by patient.

To Open Tube: Push cap in and turn counterclockwise.
Warning: Keep used and unused product out of reach of children. Wash hands after use. Avoid contact with eyes.

Usual Dosage: Apply to intact skin. See package insert for full prescribing information and directions for use.

Contains: Each gram of cream contains 70 mg of lidocaine (net weight: 2.1 g) and 70 mg of tetracaine (net weight: 2.1 g) and the following inactive ingredients: dibasic calcium phosphate, methylparaben, petrolatum, polyvinyl alcohol, propylparaben, purified water, and sorbitan monopalmitate.

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To Open Tube:
Push cap in and turn counterclockwise.
See crimped end for lot no. and expiration date.
Store in a refrigerator, 2° to 8°C (36° to 46°F).
Do not freeze.

Usual Dosage:
Apply to intact skin. See package insert for full prescribing information and directions for use.

Contains: Each gram of cream contains 70 mg of lidocaine (net weight: 2.1 g) and 70 mg of tetracaine (net weight: 2.1 g) and the following inactive ingredients: dibasic calcium phosphate, methylparaben, petrolatum, polyvinyl alcohol, propylparaben, purified water, and sorbitan monopalmitate.

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