1. PRODUCT AND COMPANY INFORMATION

Product Name: Diclofenac Sodium Ophthalmic Solution, 0.1%
Generic Name: Diclofenac Sodium Ophthalmic Solution, 0.1%

NDC Code:
14789-200-02 (2.5 mL)
14789-200-05 (5 mL)

Legal Category: Prescription only medicine, filled inside plastic bottle suitable for Dispensing, and packed inside a cardboard carton.

Drug Indication: Topical Analgesic for pain relieve after a cataract surgery of eyes

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Description</th>
<th>CAS #</th>
<th>TLV (mg/m³)</th>
<th>PEL (mg/m³)</th>
<th>% Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diclofenac Sodium, 0.1% (w/v)</td>
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Ingredients < 5%: Edetate Disodium, Boric Acid, Boric Acid, Tromethamine, Sorbic Acid, Polyoxy 35 Castor Oil, Water for Injection

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Plastic bottle in a cardboard box. Clear, colorless aqueous solution. Presents little or no hazards if spilled and no unusual hazard if involved in fire.

POTENTIAL HEALTH HAZARDS

Carcinogenicity: (NTP) No (IARC) No (OSHA) No

Eye: May irritate the eyes.
Skin: Diclofenac Sodium Ophthalmic Solution should be discontinued at the first appearance of a skin rash or any other sign of hypersensitivity reaction.

Ingestion: No data.

Inhalation: May irritate the respiratory system.

Chronic Effects: Diclofenac and related drugs have been shown to cause arthropathy in immature animals of most species tested following oral administration. However, a one-month topical ocular study using immature Beagle dogs did not demonstrate any articular lesions.

Target Organs: No data.

Medical Conditions Aggravated by Long Term Exposure: Diclofenac and related drugs have been shown to cause arthropathy in immature animals of most species tested following oral administration. However, a one-month topical ocular study using immature Beagle dogs did not demonstrate any articular lesions.

4. FIRST AID MEASURES

Eyes: Rinse immediately with copious amounts of water for at least 20 minutes. Contact a physician.

Skin: Remove all contaminated clothing and wash skin with copious amounts of water for at least 20 minutes. Contact physician if skin becomes irritated.

Ingestion: Wash out mouth and drink plenty of water and bland fluids. The use of an emetic drug and/or gastric lavage is advisable. Do not give anything to an unconscious person. Contact physician.

Inhalation: Remove person to fresh air, and if breathing stops, use artificial respiration. Contact physician.

Note to Physicians: Additional details are available on the package insert or in the Physicians Desk Reference.

Pregnancy Category C: Reproduction studies have been performed in rats and mice at doses up to six times the usual daily human oral dose and have revealed no evidence of impaired fertility or harm to the fetus due to diclofenac. In rabbits, as with most analgesic agents, diclofenac (30 and 100 mg/kg orally) produced gastrointestinal disturbances resulting in maternal weight loss and an increased incidence of abortion. No teratogenicity was observed at either dose. After intravenous administration, at doses up to 20 mg/kg, no maternal toxicity was produced and no embryotoxicity or teratogenicity was observed.

There are no adequate and well controlled studies in pregnant women. Diclofenac sodium ophthalmic solution, 0.1% should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.
Nursing Mothers: It is not known whether topically applied diclofenac is excreted in human milk; however, it is known that orally administered diclofenac is excreted in the milk of lactating rats and oral diclofenac has been reported in human breast milk after a single 500 mg dose. Caution should be exercised when Diclofenac Sodium Ophthalmic solution, 0.1% is administered to a nursing mother.

5. **FIRE FIGHTING MEASURES**

**Flammable Properties:** Flash point: NE; Method: NE

**Hazardous Products:** May emit toxic fumes.

**Extinguishing Media:** Dry chemical, carbon dioxide, halon, water spray or fog, and foam on surrounding materials.

**Fire Fighting Instructions:** Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool. Do not spray water into the burning material.

6. **ACCIDENTAL RELEASE MEASURES**

**Large/Small Spills:** Use personal protective equipment. Contain the spill to prevent drainage into sewers, drains or streams. Use absorbent material to solidify the spill. Shovel or scoop up solidified waste. Dispose of material according to Federal, State and Local regulations.

7. **HANDLING AND STORAGE**

**Handling:** Avoid contact with product and use caution to prevent puncturing containers. No special protective equipment or procedures are required in the clinical or home environment.

**Storage:** Store product upright in original containers with the cap tightly closed at a controlled room temperature 15-30 °C (59 – 86 °F). **KEEP THIS AND ALL DRUGS OUT OF THE REACH OF CHILDREN.**

8. **EXPOSURE CONTROL/PERSONAL PROTECTION**

**Engineering Controls:** In the manufacturing plant, provide adequate ventilation for the raw material handling and compounding process, which will maintain the dust and vapor levels below the TLV, STEL, and PEL values for the ingredients. Ventilation fans should be explosion proof. Use adequate personal protective equipment e.g. NIOSH-approved respirators, goggles or safety glasses, gloves and protective clothing. Ensure training in the handling of chemical material and use current Material Safety Data Sheets.
Eye Protection: (29 CFR 1910.133) Recommend goggles or chemical safety glasses.

Skin Protection: Use thick impermeable gloves and protective clothing.

Respiratory Protection: (29 CFR 1910.134) NIOSH approved respirator, with organic vapor, acid gas and HEPA filter recommended for handling raw materials. **Warning:** Do not use air-purifying respirators in oxygen-depleted environments. No respiratory protection is required in the clinical or home environment.

Other: None

Ventilation: Recommended

Contaminated Equipment: Wash contaminated clothing separately. Wash contaminated equipment with soap and water. Release rinse water into an approved wastewater system or according to Federal, State and Local regulations.

9. CHEMICAL & PHYSICAL PROPERTIES

Physical state and appearance: Aqueous Liquid Solution. Odor: Odorless; Taste: Not available; Molecular Weight: 318.13 g/mole Color: White. pH (0.1% soln/water): About 7; Boiling Point: Decomposes; Melting Point: 284°C (543.2°F) Critical Temperature: Not available; Specific Gravity: 1.008; Vapor Pressure: Not applicable; Vapor Density: Not available; Volatility: Not available; Odor Threshold: Not available; Water/Oil Dist. Coeff: Not available; Ionicity (in Water): Not available; Dispersion Properties: See solubility in water. Solubility: Soluble in cold water.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to avoid: Extreme heat or cold.

Incompatibility: This product has the incompatibilities of water e.g. strong acids, bases, alkali metals, alkali hydrides and silver preparations.

Hazardous Decomposition Products: May emit toxic fumes.

Hazardous Polymerization: Should not occur.

11. TOXICOLOGY

Summary of Risks: Toxicological information refers to raw materials product. Concentrations and toxicological effects are substantially reduced in the product. For more detailed information see MSDS on chemical material.
Diclofenac CAS# 15307-79-8

Nausea, diarrhea, headache, restlessness, renal abnormalities and renal failure, abnormalities of liver enzymes, jaundice, palpitations, tachycardia, arthralgia, tonic/clonic seizures, central nervous system disturbances, dizziness, weakness, irritability, malaise, photodermatitis, and hypersensitivity reactions. Diclofenac may also irritate the eyes, skin, and respiratory system. Acute toxicity: LD50 (oral, rat) > 53 mg/kg. 157mg/Kg (rabbit), 95 mg/kg (Rats). TDLo (oral, human – male) not known. TDLo (oral, human – female) Not available Two out of eight mutagenicity tests were positive; however, the following in vivo test systems were negative: rat hepatocyte DNA repair assay, micronucleus test (mice), and dominant lethal test (mice).

61791-12-6 Polyoxyl35 Castor Oil
May irritate the upper respiratory tract in large quantities resulting in a persistent cough. Excessive ingestion of polyoxyl 35 castor oil can cause irritation of the stomach, as well as nausea and diarrhea. In extreme cases, vomiting, chills, dizziness, chest pain, cardiac failure and pulmonary edema. Dermal exposure can irritate and discolor the skin, particularly in sensitive areas.

12. ECOLOGICAL INFORMATION

Chemical Fate Information: Product administered to patients presents a negligible impact on the environment.

13. DISPOAL INFORMATION

Dispose of material according to Federal, State, and Local regulations. The method typically used is incineration.

EPA Designations: RCRA Hazardous Waste: Not Listed
SARA Title III: Not Listed

14. TRANSPORTATION INFORMATION

Transportation Data: Not classified as hazardous by DOT regulations.

15. REGULATORY INFORMATION

DOT Designations: Not classified as hazardous by DOT regulations.

EPA Designations: RCRA Hazardous Waste (40 CFR 261.33) Not Listed

FDA Designations: Prescription only medication.
NDC Number: 14789-200-02 (2.5 mL)
14789-200-05 (5 mL)
OSHA Designations: (29 CFR 1910.1000, Table Z)
Not Listed

SARA Title III: Not listed under Section 313 of Toxic Release Reporting.

CALIFORNIA PROPOSITION 65: Not Listed

16. OTHER INFORMATION

None

The information contained herein is furnished without warranty of any kind. The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

NE- Not Established
<- Less Than
-> Greater Than

Issue Date: September 30, 2007
Revision: none