



**INDIANA OPHTHALMICS, INDIA**

PRODUCT: CROMOLYN SODIUM OPHTHALMIC SOLUTION USP

**1. NAME OF THE MEDICINAL PRODUCT**

Cromolyn Sodium Ophthalmic Solution USP

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**2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

**Qualitative Declaration:**

**Cromolyn Sodium Ophthalmic Solution USP**

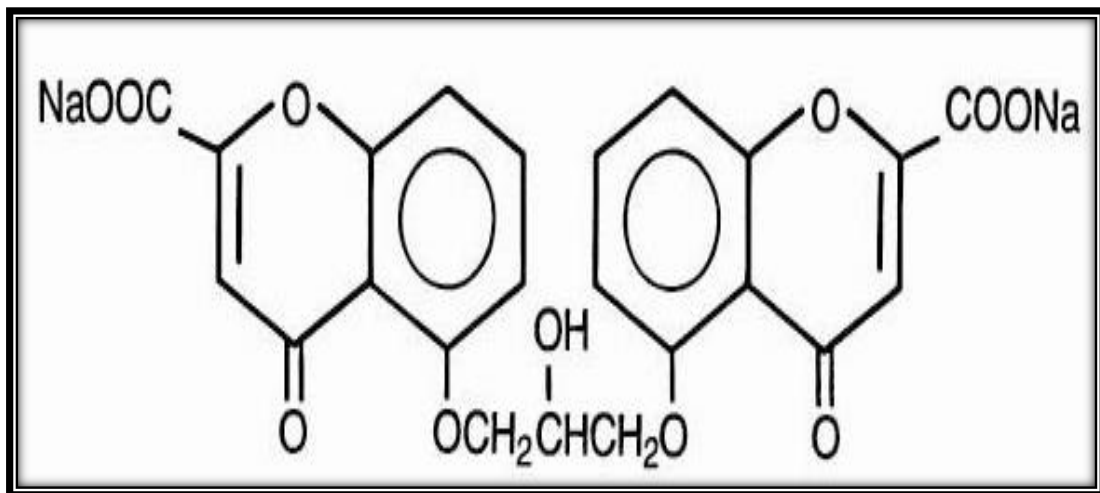
❖ **Cromolyn Sodium**

**Chemical Name:** Disodium 5-[3-(2-carboxylato-4-oxochromen-5-yl) oxy-2-hydroxypropoxy]-4-oxochromene-2-carboxylate

**Molecular Weight:** - 468.367 gm/mol

**Molecular Formula:** - C<sub>23</sub>H<sub>16</sub>O<sub>11</sub>

**Structural Formula:-**



**Pharmaceutical Form Visual description of the appearance of product:**

Clear Colourless Solution, Free from any type of visible Particles.

**Quantitative Declaration:**

**Composition:**

Cromolyn Sodium	USP	2.0% w/v
Benzalkonium Chloride Solution	NF	0.01% w/v
(As Preservative)		
Sterile Aqueous Base		Q.S



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### **3. PHARMACEUTICAL FORM**

Eye Drops

### **4. CLINICAL PARTICULARS**

#### **4.1 Therapeutic Indications**

#### **INDICATIONS AND USAGE**

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The prevention and treatment of acute, seasonal and perennial allergic conjunctivitis.

**4.2 Posology and method of administration**  
**DOSAGE AND ADMINISTRATION**

Posology:



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Adults and Children: One or two drops into each eye up to four times a day or as indicated by the doctor.

Elderly: There is no current evidence for alteration of the dose.

Route of administration: Topical ophthalmic.

## 4.3 Contraindications

Patients with known hypersensitivity to any of the ingredients listed in section 6.1.



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#### **4.4 Special warnings and precautions for use**

This formulation of Sodium Cromoglicate Eye Drops contains 0.1mg/ml (4.5 micrograms per dose) benzalkonium chloride as a preservative which may be deposited in soft contact lenses. Hence, Sodium Cromoglicate Eye Drops should not be used while wearing these lenses. The lenses should be removed before instillation of the drops and not reinserted earlier than 15 minutes after use.

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Benzalkonium chloride has been reported to cause eye irritation, symptoms of dry eyes and may affect the tear film and corneal surface. Should be used with caution in dry eye patients and in patients where the cornea may be compromised. Patients should be monitored in case of prolonged use.

Patients should also be instructed that ocular solutions, if handled improperly can become contaminated by common bacteria known to cause ocular infections. Serious damage to the eye and subsequent loss of vision may result from using contaminated solutions. Patients should also be advised that if they develop any intercurrent ocular condition (e.g. trauma, ocular surgery or infection), they should immediately seek their physician's advice concerning the continued use of present multi-dose container. There have been reports of bacterial keratitis associated with the use of topical ophthalmic products.

#### **4.5 Interaction with other medicinal products and other forms of interaction**

None known.



#### **4.6 Fertility, pregnancy and lactation**

##### **Fertility:**

It is not known whether sodium cromoglicate has any effect on fertility.

##### **Pregnancy:**

As with all medication, caution should be exercised especially during the first trimester of pregnancy. Cumulative experience with sodium cromoglicate suggests that it has no adverse effects on foetal development. It should be used in pregnancy only where there is a clear need.

##### **Lactation;**

It is not known whether Sodium Cromoglicate is excreted in human breast milk, but based on its physicochemical properties this is considered unlikely Therefore caution should be exercised when the eye drops are administered to nursing mothers.



**4.7 Effects on ability to drive and use machines**

Transient stinging or blurring of vision may occur on instillation of the drops. Do not drive or use machinery until normal vision is restored.



#### **4.8 Undesirable effects**

Transient stinging and burning on instillation of the drops. Rarely, other symptoms of local irritation.

##### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via Yellow card scheme at [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard) or search for MHRA Yellow Card in the Google Play or Apple App Store.



#### **4.9 Overdose**

Medical observation is recommended in cases of overdosage.

Sodium cromoglicate is poorly absorbed both from the eye and from the gastrointestinal tract.



## **5. PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamics properties**

#### **Cromolyn Sodium**

Pharmacotherapeutic group: Ophthalmologicals; other antiallergics, ATC code: SO1GX01

In vitro and in vivo animal studies have shown that Sodium cromoglicate inhibits the degranulation of sensitised mast cells which occurs after exposure to specific antigens. Sodium cromoglicate acts by inhibiting the release of histamine and various membrane derived mediators from the mast cell.

Sodium cromoglicate has demonstrated the activity in vitro to inhibit the degranulation of non-sensitised rat mast cells by phospholipase A and subsequent release of chemical mediators. Sodium cromoglicate did not inhibit the enzymatic activity of released phospholipase A on its specific substrate.

Sodium cromoglicate has no intrinsic vasoconstrictor or antihistamine activity.

### **5.2 Pharmacokinetics Properties**

#### **Pharmacokinetics**

Sodium cromoglicate is poorly absorbed. When multiple doses of Sodium cromoglicate ophthalmic solution are instilled into normal rabbit eyes, less than 0.07% of the administered dose of Sodium cromoglicate is absorbed into the systemic circulation (presumably by way of



the eye, nasal passages, buccal cavity and gastrointestinal tract). Trace amounts (less than 0.01%) of the sodium cromoglicate does penetrate into the aqueous humour and clearance from this chamber is virtually complete within 24 hours after treatment is stopped.

In normal volunteers, analysis of drug excretion indicates that approximately 0.03% of Sodium cromoglicate is absorbed following administration to the eye.

### **5.3 Preclinical safety data**

Pre-clinical safety data does not add anything of further significance to the prescriber.



**6. PHARMACEUTICAL PARTICULARS**

**6.1 List of excipients**

BENZALKONIUM CHLORIDE SOLUTION	IP/NF
SODIUM CHLORIDE	IP/BP/USP/NF
SODIUM CITRATE	IP/NF
EDETATE DISODIUM	IP/NF
PURIFIED WATER	IP/BP/IH



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## 6.2 Incompatibilities

~Not applicable. ~



**6.3 Shelf life**

24 months



**6.4 Special precautions for storage**

Store below 30 degrees C.

Do not freeze.

Protect from light.

Keep out of the reach of children.



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### **6.5 Nature and contents of container**

The liquid is filled in a multi dose container, and contain Benzalkonium Chloride Solution, Sodium Chloride, Sodium Citrate, Edetate Disodium and Purified Water.



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**6.6 Special precaution for disposal of a used medicinal product or waste materials derived such medicinal product and other handling of the product**

No special requirements