

## SAFETY DATA SHEET


1. Identification

<b>Product Identifier:</b>	Cromolyn Sodium Ophthalmic Solution USP, 4%
<b>Synonyms:</b>	Cromolyn Sodium; Disodium 5-5' - [(2-hydroxytrimethylene)dioxy] bis [4-oxo-4H-1-benzopyran-2-carboxylate]
<b>National Drug Code (NDC):</b>	17478-291-11
<b>Recommended Use:</b>	Pharmaceutical.
<b>Company:</b>	Akorn, Inc. 1925 West Field Court, Suite 300 Lake Forest, Illinois 60045
<b>Contact Telephone:</b>	1-800-932-5676
<b>E mail:</b>	customer.service@akorn.com
<b>Emergency Phone Number:</b>	CHEMTREC 1-800-424-9300 (U.S. and Canada)

2. Hazard(s) Identification

<b>Physical Hazards:</b>	Not classifiable.
<b>Health Hazards:</b>	Eye irritation Category 2A
	Specific target organ toxicity – single exposure (respiratory tract irritation) Category 3



<b>Symbol(s):</b>	
<b>Signal Word:</b>	Warning.
<b>Hazard Statement(s):</b>	H319 Causes serious eye irritation. H335 May cause respiratory irritation.
<b>Precautionary Statement(s):</b>	P233 Keep container tightly closed. P261 Avoid breathing dust/fume/gas/mist/vapor/spray. P264 Wash potentially exposed skin thoroughly after handling. P271 Use only in a well-ventilated area.

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P304 IF INHALED: Remove victim to fresh air and  
+ keep at rest in a position comfortable for  
P340 breathing.

P305 IF IN EYES: Rinse cautiously with water for  
+ several minutes. Remove contact lenses, if  
P351 present and easy to do. Continue rinsing.  
+  
P338

P312 Call a POISON CENTER/doctor/physician if you  
feel unwell.

P337 If eye irritation persists: Get medical  
+ advice/attention.  
P313

P403 Store in a well-ventilated place.

P405 Store locked up.

P501 Dispose of contents/container in accordance  
with local/provincial/federal regulations.

**Hazards Not Otherwise Classified:** Not classifiable.  
**Supplementary Information:** None.

### 3. Composition/Information on Ingredients

Chemical Name	CAS Number	Synonyms	Chemical Formula	Molecular Weight	Percentage
Disodium 5-5' - [(2-hydroxytrimethylene)dioxy] bis [4-oxo-4H-1-benzopyran-2-carboxylate]	15826-37-6	Cromolyn Sodium	C <sub>23</sub> H <sub>14</sub> Na <sub>2</sub> O <sub>11</sub>	512.34	4%

\*The formula also contains Benzalkonium Chloride, 0.01% as a preservative, Edetate Disodium, 0.1% and Purified Water, USP.

### 4. First Aid Measures

#### **Ingestion:**

If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth with water. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### **Eye Contact:**

Remove from source of exposure. Flush with copious amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the

material(s) involved and are aware of precautions to protect themselves.

**Skin Contact:**

Remove from source of exposure. Remove and isolate contaminated clothing and shoes. Flush with copious amounts of water for at least 20 minutes. Use soap. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

**Inhalation:**

Remove from source of exposure. Move individual(s) to fresh air. Give artificial respiration if individual(s) are not breathing and call emergency medical service. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

**Protection of First-Aiders:**

Use personal protective equipment (see section 8).

**Signs and Symptoms:**

Wheezing, coughing, difficulty breathing; diarrhea, nausea, vomiting; skin rash; throat irritation or dryness; headache; irritability; muscle pain; allergic reaction is possible if inhaled, ingested, or in contact with skin; may cause hypersensitivity reaction.

**Medical Conditions Aggravated by Exposure:**

Hypersensitivity to any components of this product; impaired liver or kidney function.

**Notes to Physician:**

Treat supportively and symptomatically.

**5. Firefighting Measures**

**Suitable Extinguishing Media:**

Use extinguishing media for type of surrounding fire.

**Unsuitable Extinguishing Media:**

Not determined.

**Specific Hazards Arising from the Chemical:**

**Hazardous Combustion Products:**

These products include carbon oxides and sodium oxides.

**Other Specific Hazards:**

Closed containers may explode from the heat of fire.

**Special Protective Equipment/Precautions for Firefighters:**

Wear self-contained breathing apparatus and full and protective gear.

**6. Accidental Release Measures**

- Personal Precautions:** Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate personal protective equipment and clothing.
- Personal Protective Equipment:** For personal protection see section 8.
- Methods for Cleaning Up:** Dike ahead of liquid spills for later disposal. Absorb with inert material. Recover product and place in an appropriate container for disposal in accordance with local, state and federal regulations.
- Environmental Precautions:** Contain material and prevent release to basements, confined spaces, waterways or soil.
- Reference to Other Sections:** Refer to Sections 8, 12 and 13 for further information.

**7. Handling and Storage**

- Precautions for Safe Handling:** Handle in accordance with product label and/or product insert information. Handle in accordance with good industrial hygiene and safety practices.
- Conditions for Safe Storage, Including Any Incompatibilities:** Store according to label and/or product insert information. Store away from oxidizers, acids and bases.
- Specific End Use:** Pharmaceuticals.

**8. Exposure Controls/Personal Protection**

**Occupational Exposure Guidelines:**

Common or Chemical Name	Employee Exposure Limits
Cromolyn Sodium	No data available.

- Engineering Controls:** Engineering controls should be used as the primary means to control exposures.
- Respiratory Protection:** Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).
- Eyes Protection:** Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
- Hand Protection:** Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize

direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic non-latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

**Skin Protection:** Protective laboratory coat, apron, or disposable garment.

## 9. Physical and Chemical Properties

<b>Physical State/Color:</b>	Liquid/Colorless.
<b>Odor:</b>	No data available.
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	4.0 – 7.0.
<b>Melting Point:</b>	No data available.
<b>Freezing Point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	No data available.
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Lower:</b>	No data available.
<b>Flammability Limit - Upper:</b>	No data available.
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	No data available.
<b>Relative Density:</b>	No data available.
<b>Solubility(ies):</b>	Miscible in water.
<b>Partition Coefficient (n-octanol/water):</b>	No data available.
<b>Auto-Ignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. Stability and Reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions:</b>	No data available.
<b>Conditions to Avoid (e.g., static discharge, shock, or vibration):</b>	No data available.
<b>Incompatible Materials:</b>	Oxidizers, acids and bases.
<b>Hazardous Decomposition Products:</b>	No data available.

## 11. Toxicological Information

### Information on the Likely Routes of Exposure:

<b>Inhalation:</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion:</b>	May be harmful if ingested.

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**Skin Contact:** May be harmful if absorbed through the skin. May cause irritation.

**Eye Contact:** May cause eye irritation.

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics:**

See Section 4. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Delayed and Immediate Effects of Exposure:**

No data available.

**Acute Toxicity:**

Compound	Species	Route	Test Type	Dose
Cromolyn Sodium	Rat	Oral	LD <sub>50</sub>	>2,150 mg/kg
Cromolyn Sodium	Mouse	Subcutaneous	LD <sub>50</sub>	4,400 mg/kg

**Acute Toxicity – Inhalation:** No data available.  
**Corrosivity:** No data available.  
**Dermal Irritation:** No data available.  
**Eye Irritation:** No data available.  
**Sensitization:** No data available.  
**Toxicokinetics/Metabolism:** No data available.  
**Target Organ Effects:** No data available.  
**Reproductive Effects:** No data available.  
**Carcinogenicity:** No data available.

National Toxicology Program (NTP): Not considered to be a carcinogen.

International Agency for Research on Cancer (IARC): Not considered to be a carcinogen.

Occupational Safety and Health Administration (OSHA): Not considered to be a carcinogen.

**Mutagenicity:** No data available.  
**Aspiration Hazard:** No data available.

### 12. Ecological Information

**Ecotoxicity**

**Aquatic:** No data available.  
**Terrestrial:** No data available.  
**Persistence and Degradability:** No data available.  
**Bioaccumulative Potential:** No data available.  
**Mobility in Soil:** No data available.  
**Mobility in Environment:** No data available.  
**Other Adverse Effects:** No data available.

### 13. Disposal Considerations

Dispose of all waste in accordance with Federal, State and Local regulations.

**14. Transport Information**

<b>UN Number:</b>	Not applicable.
<b>UN Proper Shipping Name:</b>	Not applicable.
<b>Transport Hazard Class(es):</b>	Not applicable.
<b>Packing Group:</b>	Not applicable.
<b>Department of Transportation:</b>	Not regulated as a hazardous material.
<b>International Air Transport Association (IATA):</b>	Not regulated as a dangerous good.
<b>International Maritime Dangerous Good (IMDG):</b>	Not regulated as a dangerous good.

**15. Regulatory Information**

**US Federal Regulations:**

<b>Toxic Substance Control Act (TSCA):</b>	This product is a drug regulated by the Food and Drug Administration (FDA), and is not regulated by TSCA.
<b>CERCLA Hazardous Substance and Reportable Quantity:</b>	Not listed.
<b>SARA 313:</b>	Not listed.
<b>SARA 302:</b>	Not listed.

**State Regulations**

<b>Massachusetts:</b>	Not listed.
<b>New Jersey:</b>	Cromolyn Sodium.
<b>Pennsylvania:</b>	Cromolyn Sodium.
<b>California Proposition 65:</b>	Not listed.

**16. Other Information**

Not made with natural rubber latex.

<b>NFPA Rating:</b>		<b>HMIS Classification:</b>	
Health: 2		Health: 2	
Flammability: 0		Flammability: 0	
Reactivity: 0		Physical Hazard: 0	

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