

SAFETY DATA SHEET

1. Identification

Product Identifier:	Apraclonidine Ophthalmic Solution, USP 0.5%	
Synonyms:	Apraclonidine hydrochloride; 2-[(4-amino-2,6 dichlorophenyl) imino]imidazolidine monohydrochloride	
National Drug Code (NDC):	17478-716-10 17478-716-11	
Recommended Use:	Pharmaceutical.	
Company:	Akorn, Inc. 1925 West Field Court, Suite 300 Lake Forest, Illinois 60045	
Contact Telephone:	1-800-932-5676	
E mail:	customer.service@akorn.com	
Emergency Phone Number:	CHEMTREC 1-800-424-9300 (U.S. and Canada)	

2. Hazard(s) Identification

Physical Hazards:	Not classifiable.	
Health Hazards:	Harmful if swallowed	Category 4

Symbol(s):**Signal Word:**

Warning.

Hazard Statement(s):

H302 Harmful if swallowed

Precautionary Statement(s):

P264 Wash (potentially) exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor/physician if you feel unwell.

P330 Rinse mouth.

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

Hazards Not Otherwise Classified: Not classifiable.

Supplementary Information: May cause eye, skin, and respiratory irritation.
Systemically absorbed via eyes, skin, and ingestion.

3. Composition/Information on Ingredients

Chemical Name	CAS Number	Synonyms	Chemical Formula	Molecular Weight	Percentage
2-[(4-amino-2,6 dichlorophenyl) imino]imidazolidine monohydrochloride	73218-79-8	Apraclonidine hydrochloride	C ₉ H ₁₀ Cl ₂ N ₄ •HCl	281.57	0.575%

*The formula also contains Benzalkonium Chloride, 0.01% as a preservative. Sodium Acetate, Sodium Chloride, Sodium Hydroxide and/or Hydrochloric Acid may be added to adjust pH (4.4 – 7.8) and Water for Injection.

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: May include red, itchy, swollen, or watery eyes; eyelid changes; enlarged pupils; and dry mouth. If material is systemically absorbed it causes adverse effects similar to those of clonidine, a related material, which may include mental depression; swelling of feet and lower legs; constipation; dizziness; drowsiness; headache; dry mouth; unusual tiredness or weakness; loss of appetite; decreased sexual ability; lightheadedness or fainting; nausea or vomiting; nervousness; unusual taste perception; and dry, itching, or burning eyes. Possible allergic reaction to material if inhaled, ingested or in contact with skin. Overdose effects may include dizziness or fainting, difficulty breathing, slowed heartbeat, pinpoint pupils, feeling cold, and extreme tiredness or weakness. Eye, skin, gastrointestinal and/or respiratory tract irritation are possible.

Medical Conditions Aggravated by Exposure: Hypersensitivity to apraclonidine or any other component of this product, as well as systemic clonidine.

Notes to Physician: None.

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, nitrogen oxides and hydrogen chloride.

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.

Specific End Use: Pharmaceuticals.

8. Exposure Controls/Personal Protection**Occupational Exposure Guidelines:**

Common or Chemical Name	Employee Exposure Limits
Apraclonidine Hydrochloride	Not established.

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: Wear protective laboratory coat, apron, or disposable garment when working with large quantities.

9. Physical and Chemical Properties

Physical State/Color: Liquid/Colorless to light yellowish.

Odor: No data available.

Odor Threshold: No data available.

pH: 4.4 – 7.8.

Melting Point: No data available.

Freezing Point: No data available.

Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Lower:	No data available.
Flammability Limit - Upper:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Relative Density:	No data available.
Solubility(ies):	Miscible in water.
Partition Coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid (e.g., static discharge, shock, or vibration):	Light; freezing.
Incompatible Materials:	Oxidizers.
Hazardous Decomposition Products:	No data available.

11. Toxicological Information

Information on the Likely Routes of Exposure:

Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Skin Contact:	May be harmful if absorbed through the skin. May cause skin 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
Apraclonidine Hydrochloride	Mouse	Oral	LD ₅₀	3 mg/kg
Apraclonidine Hydrochloride	Rat	Oral	LD ₅₀	38 mg/kg

Acute Toxicity – Dermal: No data available.
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: Central Nervous System.

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

UN Number: Not applicable.
UN Proper Shipping Name: Not applicable.
Transport Hazard Class(es): Not applicable.
Packing Group: Not applicable.

Department of Transportation: Not regulated as a hazardous material.

International Air Transport Association (IATA): Not regulated as a dangerous good.

International Maritime Dangerous Good (IMDG): Not regulated as a dangerous good.

15. Regulatory Information

US Federal Regulations:

Toxic Substance Control Act (TSCA): This product is a drug regulated by the Food and Drug Administration (FDA), and is not regulated by TSCA.

CERCLA Hazardous Substance and Reportable Quantity: Not listed.

SARA 313: Not listed.
SARA 302: Not listed.

State Regulations

Massachusetts: Not listed.
New Jersey: Apraclonidine hydrochloride.
Pennsylvania: Apraclonidine hydrochloride.
California Proposition 65: Not listed.

16. Other Information

Not made with natural rubber latex.

NFPA Rating:		HMIS Classification:	
Health:	4	Health:	4
Flammability:	0	Flammability:	0
Reactivity:	0	Physical Hazard:	0

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