Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Hydroxyzine Hydrochloride USP
Commercial Name Not available.
Product Use Active pharmaceutical ingredient for the preparation of drugs. Professional use only.
Restrictions On Use There are no uses advised against

Product Code 55-1400

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

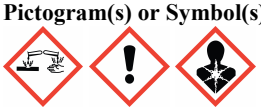
Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Acute toxicity, oral Category 4 skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Reporductive toxcity Category 2 Specific target organ toxicity, single exposure Category 3 narcotic effects

Signal Word DANGER

Hazard Statement(s) Harmful if swallowed. Causes severe skin burns and eye damage. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Hydroxyzine Hydrochloride USP
% By Weight 100
CAS# 2192-20-3
Molecular Weight 447.83 g/mole
Chemical Formula C21H27ClN2O2.2HCl
Synonym(s) 2-[2-[4-[(4--Chlorophenyl)phenymethyl]-1-piperazinyl]ethoxy]ethanol hydrochloride

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Hydroxyzine Hydrochloride USP	2192-20-3	100	Not Available.	50): Acute 950 mg/kg [Rat].

Section 4: First-Aid Measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin Contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Get medical attention if irritation develops and persists

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately

Symptoms/Effects

Acute Pharmacologically active material. Occupational exposure may cause physiological effects.

Delayed Pharmacologically active material. Occupational exposure may cause physiological effects.

Immediate Medical Attention

Treat symptomatically. Treatment of antihistamine overdose may include the following: Do NOT induce vomiting. Administer activated charcoal as a slurry. For delirium, administer physostigmine. For tachycardia in agitated patients, sedate with benzodiazepines. If severe tachycardia results in hemodynamic compromise or ischemia, administer beta-blocking agents. A short-acting cardioselective agent, such as esmolol, is preferred. Administer intravenous lidocaine. For dysrhythmias, administer sodium bicarbonate. For torsades de pointes in hemodynamically unstable patients, treat with electrical cardioversion. In stable patients, treat with magnesium, isoproterenol, and/or atrial overdrive pacing. Correct electrolyte abnormalities. AVOID class Ia (quinidine, disopyramide, procainamide), class Ic (flecainide, ecainide, propafenone), and most class III antidysrhythmics (N-acetylprocainamide, sotalol). For seizures, administer intravenous diazepam or lorazepam. If seizures recur, consider phenobarbital. Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, and hypoxia. For hypotension, infuse isotonic fluid. If hypotension persists, administer dopamine or norepinephrine. Treat dystonia with oral or intravenous diazepam, agitation with benzodiazepines, hyperthermia with sponge application of tepid water and fanning (AVOID phenothiazines), and severe hyperthermia with neuromuscular paralysis.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

No unusual fire or explosion hazards noted.

Firefighters Special Equipment and Precautions

Wear suitable protective equipment Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental Release Measures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS Methods and materials for containment and cleaning up: For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Handling: As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Not available.

Engineering Controls For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

Personal Protection Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. Skin protection Hand protection: Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Chose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards: Wear appropriate thermal protective clothing, when necessary. General hygiene considerations: Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

Section 9: Physical and Chemical Properties

Appearance	Solid. (Powdered solid.) Color: White.
Odor	Odorless
Odor Threshold	Not available.

Melting Point	379.4 - 392 °F (193 - 200 °C)	**pH**	in aqueous solution 1.5 - 2.5 Solut
Freezing Point	Not available.	**Vapor Pressure**	< 0.0000001 kPa at 25 °C
Boiling Point/Range	Not available	**Vapor Density**	Not available.
Decomposition temperature	Not available.	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	2.58	**Evaporation Rate**	Not available.
Flash Point	Not available.	**Autoignition temperature**	Not available
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available
		Upper	Not available.

Solubility(ies)	Very soluable in water.
Other	Chloroform: Soluble. Acetone: Slightly soluble. Ethanol: Freely soluble. Ether: Practically insoluble Chemical family Piperazine derivative. Molecular formula C21H27ClN2O2 . 2HCl Molecular weight 447.83 Percent volatile < 5 %

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions
Hazardous Polymerization	No dangerous reaction known under conditions of normal use
Conditions to Avoid	Contact with incompatible materials
Incompatible Materials	Reducing agents. Strong oxidizing agents.
Hazardous Decomposition Products	NOx. Cl-. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

RTECS KK2280000

Acute Toxicity
Oral LD50: Rat 950 mg/kg, 690 mg/kg

Skin Corrosion/Irritation
Causes severe skin burns and eye damage

Serious Eye Damage/Irritation
Causes serious eye damage.

Respiratory or Skin Sensitization
Not available.

Germ Cell Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive Toxicity
Suspected of damaging fertility or the unborn child.

Routes of Entry
Inhalation. Skin. Eye. Ingestion.

Symptoms Related to Exposure
Drowsiness. Dizziness. Dry mouth. Skin rash. Clumsiness. Blindness. Flushing. Difficulty breathing. Fast heartbeat. Excitement

Potential Health Effects
Narcotic effects

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity
Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems

Persistance and Degradability
Not available.

Bioaccumulative Potential
Octanol/water partition coefficient log Kow 2.58

Mobility in Soil
Not available.

Other Adverse Effects
Not available.

Section 13: Disposal Considerations

Waste Disposal
Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Disposal of Container
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Other Considerations
Not available.

Section 14: Transport Information

DOT Classification
Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations
US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Hazard categories SARA 302 Extremely hazardous substance Not listed. YesSARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated.Safe Drinking Water Act (SDWA) This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm

Other
Not available.

Section 16: Other Information

The information contained in this document is given in good faith based on our current knowledge. It is only an Indication and is in no way binding , particularly as regards infringement of prejudice to third party rights through the use of our products. Symed Labs Ltd guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use.