

Section 1. Product and Company Identification

**Product Name** Meclizine Hydrochloride  
**CAS Number** 31884-77-2

**Parchem - fine & specialty chemicals**

**415 Huguenot Street**

**New Rochelle, NY 10801**

**(914) 654-6800** **(914) 654-6899**

**parchem.com**

**info@parchem.com**

EMERGENCY RESPONSE NUMBER  
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Physical Hazards:** Not Classified

**Health Hazards:** Acute toxicity, oral

**OSHA Hazards:** Not classified

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statement**

H 302- Harmful if swallowed.

H 361- Suspected of damaging fertility or the unborn child

**Precautionary Statements**

**Response**

P301 + P312 IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician if feel unwell.

P 330: Rinse mouth

P 308+ P 313: IF exposed or concerned medical attention/advice.

**Storage**

P 405: Store locked up

**Disposal**

P501: Dispose the contents/container in accordance with local/regional/national/ international regulations.



**Hazards not otherwise classified (HNOC):** Not classified

Section 3. Composition / Information on Ingredients

**Common Name** Meclizine Hydrochloride  
**Synonym(s)** [1-[(4-chlorophenyl) phenyl methyl]-4- [(3-methylphenyl) methyl] Piperazine, dihydrochloride, monohydrate]  
**Formula**  $C_{25}H_{27}ClN_2 \cdot 2HCl \cdot H_2O$   
**CAS Number** 31884-77-2

Section 4. First Aid Measures

**Inhalation:** May cause irritation. Remove to fresh air.

**Eye:** May cause irritation. Flush with copious quantities of water for at least 15 minutes.

**Skin:** May cause irritation. Flush with copious quantities of soap and water.

**Ingestion:** May cause irritation. Flush out mouth with water. This material is absorbed from the gastrointestinal tract. Its onset of action is within 1 hour and its duration of action is 8 to 24 hours.

**General First-Aid Procedures:** Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

**Overdose Treatment:** Treatment for meclizine overdose is symptomatic and supportive and may include the following:

1. Induce vomiting for recent ingestion, or perform gastric lavage if patient is unable to vomit within 3 hours.
2. Use vaso pressors for hypotension, but DO NOT use epinephrine, which may further lower blood pressure Use physostigmine to counteract the anticholinergic effects; diazepam may also be used.

Section 5. Firefighting Measures

**Extinguisher Media:** Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.

**Fire and Explosion Hazards:** This material is assumed to be combustible. As with all dry powders, it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

**Firefighting Procedures:** As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Section 6. Accidental Release Measures

**Spill Response:** Wear approved respiratory protection, chemically compatible gloves, and protective clothing. Wipe up spillage or collect spillage using a high-efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labeled container for disposal. Wash spill site.



Section 7. Handling and Storage

**Handling:** Avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling

**Storage:** Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.

Section 8. Exposure Controls / Personal Protection

**Engineering Controls:** Engineering controls such as exhaust ventilation are recommended.

**Respiratory Protection:** Use a NIOSH-approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used.

**Gloves:** Chemically compatible

**Eye Protection:** Safety glasses or goggles

**Protective Clothing:** Protect exposed skin

**Exposure Limits:** N/A

Section 9. Physical and Chemical Properties

**Appearance and Odor:** White or slightly yellowish crystalline powder; slight odor.

**Odor Threshold:** N/A

**pH:** N/A

**Melting Range:** 217 - 224°C

**Boiling Point:** N/A

**Flash Point:** N/A

**Auto-ignition Temperature:** N/A

**Evaporation Rate:** N/A

**Upper Flammability Limit:** N/A

**Lower Flammability Limit:** N/A

**Vapor Pressure:** N/A

**Percent Volatile:** N/A

**Vapor Density:** N/A

**Specific Gravity:** N/A

**Solubility in Water:** Practically insoluble

**Fat Solubility:** N/A

**Other Solubility:** Practically insoluble in ether; freely soluble in chloroform, in pyridine, and in acid-alcohol-water mixtures; slightly soluble in methylene chloride, in dilute acids, and in alcohol.

**Partition Coefficient (n-Octanol/Water):** N/A

**Percent Volatile:** N/A

**Reactivity in Water:** N/A

**Explosive Properties:** N/A



**Oxidizing Properties:** N/A  
**Molecular Weight:** 481.89  
**Formula:**  $C_{25}H_{27}ClN_2 \cdot 2HCl \cdot H_2O$

Section 10. Stability and Reactivity

**Conditions to Avoid:** N/A  
**Incompatibilities:** N/A  
**Decomposition Products:** When heated to decomposition, material emits toxic fumes of Cl- and NOx. Emits toxic fumes under fire conditions.  
**Stable:** Yes  
**Hazardous Polymerization:** No

Section 11. Toxicological Information

**Oral Rat - LD50:** N/A  
**Oral Mouse - LD50:** 1600 mg/kg  
**Other Toxicity Data:** N/A  
**Irritancy Data:** N/A  
**Corrosively:** N/A  
**Sensitization Data:** N/A

**Listed as a Carcinogen by:**  
**NTP:** No  
**IARC:** No  
**OSHA:** No  
**Other Carcinogenicity Data:** No  
**Mutagenicity Data:** N/A

**Reproductive and Developmental Effects:** Pregnancy studies in rats given Meclizine doses 25 to 50 times the human therapeutic dose showed cleft palate and other oral abnormalities in the offspring. In contrast to its developmental effects in rats, Meclizine was not shown to cause birth defects in mice, rabbits, pigs, and monkeys. In general, large epidemiological studies have failed to identify any significant associations between Meclizine exposures and birth defects in humans.

Section 12. Ecological Information

**Ecological Information:** N/A

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.



Section 14. Transport Information

**Shipping Name:** N/A  
**Class:** N/A  
**UN Number:** N/A  
**Packing Group:** N/A  
**Additional Transport Information:** N/A

Section 15. Regulatory Information

**U.S. Federal Regulatory Information**

**CERCLA/SARA Hazardous Substances:** Not applicable  
One or more components are not listed on TSCA.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard Categories**

**Immediate Hazard:** Yes  
**Delayed Hazard:** No  
**Fire Hazard:** No  
**Pressure Hazard:** No  
**Reactivity Hazard:** No

**International Regulatory Information**

**Hazard code:** Xn  
**Risk phrase:** R22  
**Safety phrases:** S22, S36

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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