MATERIAL SAFETY DATA SHEET
DICYCLOMINE HYDROCHLORIDE MSDS

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dicyclomine Hydrochloride
Catalog Code: 1000019
CAS #: 67-92-5
Synonym: Dicycloverine Hydrochloride; 2-diethylaminoethyl bicyclohexyl-1-carboxylate hydrochloride
Chemical formula: C_{19}H_{35}NO_{2}.HCl
Contact Information:
PADM Laboratories Pvt. Limited,
#453/A, 12th Cross, 4th Phase,
Peenya Industrial Area,
Bangalore-560058
Karnataka, India.
Phone: 080-28368182

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicyclomine Hydrochloride</td>
<td>67-92-5</td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients:

SECTION 3: HAZARDS IDENTIFICATION

Potential acute health effects: Not available
Potential chronic health effects:
Carcinogenic effects: Not available
Mutagenic effects: Not available
Teratogenic effects: Not available
Developmental toxicity: Not available

SECTION 4: FIRST AID MEASURES

Eye contact: Rinse with water. Get medical attention if irritation develops and persists.

Skin contact: Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Serious skin contact: Not available.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Serious Inhalation: Not available

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Serious ingestion: Not available.

SECTION 5: FIRE AND EXPLOSION DATA

Flammability of the Product: Not available

Auto-Ignition Temperature: Flash point: Not available

Flammable limits: Not available

Products of Combustion: Not available

Fire Hazards in presence of various substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

Special remarks on Fire Hazards: Not available

Fire Fighting Media and Instructions:
SMALL FIRE: 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.

LARGE FIRE: Use standard firefighting procedures and consider the hazards of other involved materials.
SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small spill:** Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

**Large spill:** Not available

SECTION 7: HANDLING AND STORAGE

**Precautions:** As a general rule, 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.

**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:** Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

**Personal Protection:**

**Eye/face 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 nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

**Other:** For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

**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).

**Personal Protection in Case of a large spill:** Not available.

**Exposure Limits:** Not available.

---

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical state and appearance:** Odor: Solid and fine white crystalline powder.

**Taste:** Not available.

**Molecular Weight:** 345.95

**Color:** Fine white

**pH (1% soln/water):** Not available.

**Boiling Point:** Not available.

**Melting Point:** 168°C (334.4°F)

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.

**Vapor Pressure:** < 0.0000001 kPa at 25 °C

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff:** Not available.

**Ionicity (in water):** Not available.

**Dispersion properties:** Not available.

**Solubility:** Freely soluble in alcohol, in methylene chloride, and in chloroform; very slightly soluble in ether.

---

### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is stable under normal conditions.

**Instability Temperature:** Not available.
Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Polymerization: No

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry:

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Not available.

Other Toxic Effects on Humans: Not available.

Special Remarks on Toxicity to Animals: Not available

Special Remarks on chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Toxicity of the products of Biodegradation:

Special Remarks on the products of Biodegradation: 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.
SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special provision for Transports: Not applicable.

SECTION 15: OTHER REGULATORY INFORMATION

Federal and state Regulations: TSCA 8(b) inventory: No products were found.


Other Classifications: Not available.

WHMIS (Canada): CLASS D-2A:

DSCL (EEC): Not available.

HMIS (U.S.A): Not available

Health Hazard:

Reactivity:

Personal protection:


Health:

Flammability:

Reactivity:

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

SECTION 16: OTHER INFORMATION

References: Not available

Other Special Considerations: Not available
DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose. In no event shall PADM Laboratories Pvt. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, consequential or exemplary damages, howsoever arising, even if PADM Laboratories Pvt. Ltd. has been advised of the possibility of such damages.