1. IDENTIFICATION

Product identifier

Product code: M2025
Product Name: MAPROXILINE HYDROCHLORIDE, POWDER

Other means of identification

Synonyms:
1-(3-Methylaminopropyl)dibenzo(b,e)bicyclo(2.2.2)octadiene hydrochloride
9-(gamma-Methylaminopropyl)-9,10-dihydro-9,10-ethanoanthracene hydrochloride
N-Methyl-9,10-ethanoanthracene-9(10H)-propanamine hydrochloride
N-Methyl-9,10-ethanoanthracene-9(10H)-propylamine hydrochloride

CAS #: 10347-81-6
RTECS #: KJ4555000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000.

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral Category 4

Label elements

Warning

Hazard statements
Harmful if swallowed
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

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

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maprotiline Hydrochloride</td>
<td>10347-81-6</td>
<td>100</td>
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</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms
May cause eye/skin irritation. May cause irritation of respiratory tract. May affect respiration.
May affect the liver. It may affect the urinary system.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of
contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

**Extinguishing Media**
Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

**Specific hazards arising from the chemical**


Specific hazards: May be combustible at high temperatures.

**Special Protective Actions for Firefighters**
Specific Methods: No information available.
Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical Measures/Precautions:** Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

**Safe Handling Advice** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Product code: M2025
Product name: MAPROTILINE HYDROCHLORIDE, POWDER
Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
Strong oxidizing agents

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

National occupational exposure limits

**United States**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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**Canada**

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**Australia and Mexico**

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<th>Mexico</th>
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<td>10347-81-6</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:** Safety glasses with side-shields or Goggles

**Skin and body protection:** Long sleeved clothing
Chemical resistant apron
Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Product code:** M2025 **Product name:** MAPROTILINE HYDROCHLORIDE, POWDER
Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
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<table>
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<tr>
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<th>Taste</th>
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<td>C20H23N.HCl</td>
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<table>
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<tr>
<th>Molecular/Formula weight:</th>
<th>Flammability:</th>
<th>Flashpoint (°C/°F):</th>
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<table>
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<th>Autoignition Temperature (°C/°F):</th>
<th>Lower Explosion Limit (%):</th>
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<th>Melting point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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<table>
<thead>
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<th>Bulk density:</th>
<th>Density (g/cm3):</th>
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<table>
<thead>
<tr>
<th>Specific gravity:</th>
<th>pH:</th>
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<table>
<thead>
<tr>
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<th>Vapor density:</th>
<th>VOC content (g/L):</th>
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<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Viscosity:</th>
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<table>
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<th>Miscibility:</th>
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<tbody>
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<td>No information available.</td>
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</tbody>
</table>

### 10. STABILITY AND REACTIVITY

Reactivity
- May react with strong oxidizers

Chemical stability
- Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions:
- Hazardous polymerization does not occur

Conditions to avoid:

Incompatible Materials:
- Strong oxidizing agents

Hazardous decomposition products:

Other Information
- Corrosivity: No information available

Special Remarks on Corrosivity: No information available

Product code: M2025
Product name: MAPROTILINE HYDROCHLORIDE, POWDER
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Maprotiline Hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.</td>
</tr>
</tbody>
</table>

- **LD50/oral/rat =** 760 mg/kg Oral LD50 Rat
- **LD50/oral/mouse =** No information available
- **LD50/dermal/rabbit =** No information available
- **LD50/dermal/rat =** No information available
- **LC50/inhalation/rat =** No information available
- **LC50/inhalation/mouse =** No information available
- **Other LD50 or LC50 information =** No information available

Product Information

- **LD50/oral/rat =** 760 mg/kg
- **LD50/oral/mouse =** No information available
- **LD50/dermal/rabbit =** No information available
- **LD50/dermal/rat =** No information available
- **LC50/inhalation/rat =** No information available
- **LC50/inhalation/mouse =** No information available

Symptoms

- **Skin Contact:** May cause skin irritation.
- **Eye Contact:** May cause eye irritation.
- **Inhalation:** May cause irritation of respiratory tract.
- **Ingestion:** Harmful if swallowed. May affect behavior/central nervous system (muscle weakness, convulsions). Ingestion of large amounts may affect behavior/central nervous system (coma). May affect behavior/central nervous system (general anesthetic). It may affect the urinary system. May affect respiration (respiratory...
depression). May affect respiration (respiratory stimulation).

**Aspiration hazard**
No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity**
Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may affect the urinary system. Prolonged or repeated ingestion may affect the bladder.

**Sensitization:**
No information available.

**Mutagenic Effects:**
No information available

**Carcinogenic effects:**
Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Maprotiline Hydrochloride</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

*ACGIH (American Conference of Governmental Industrial Hygienists)*  
*IARC (International Agency for Research on Cancer)*  
*NTP (National Toxicology Program)*  
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity**
No data is available

- **Reproductive Effects:**
  No information available

- **Developmental Effects:**
  No information available

- **Teratogenic Effects:**
  No information available

**Specific Target Organ Toxicity**

- **STOT - single exposure**
  No information available.

- **STOT - repeated exposure**
  No information available.

- **Target Organs:**
  No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

- **Ecotoxicity effects:**
  No data available.

- **Persistence and degradability:**
  No information available

- **Bioaccumulative potential:**
  No information available.

- **Mobility:**
  No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods**

- **Product code:** M2025
- **Product name:** MAPROTILINE HYDROCHLORIDE, POWDER
Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal.

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
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<td>10347-81-6</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class: No information available
Packing group: No information available
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available
Description: No information available

ADR
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

RID
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

Product code: M2025
Product name: MAPROTILINE HYDROCHLORIDE, POWDER

8 / 11
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Not present</td>
<td>Not present</td>
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<td>233-758-8</td>
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</table>

U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity:</th>
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CERCLA/SARA

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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
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Canada

WHIMIS 2015 - GHS Classifications

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<th>Product code:</th>
<th>M2025</th>
<th>Product name: MAPROTILINE HYDROCHLORIDE, POWDER</th>
</tr>
</thead>
</table>
WHMIS 2015 Hazard Classification

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

WHMIS 1988 Hazard Class

The classification of this product has not been validated yet.

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

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<th>Components</th>
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EU Classification

EU GHS - SV - CLP 172/2008

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (172/2008)</th>
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<td>10347-81-6</td>
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EU - CLP (1272/2008)

R-phrase(s)

R22 - Harmful if swallowed.

S-phrase(s)

S46 - If swallowed, seek medical advice immediately and show this container or label.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>10347-81-6</td>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful.

Xn

16. OTHER INFORMATION

Product code: M2025

Product name: MAPROTILINE HYDROCHLORIDE, POWDER
Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet