1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Product code:** P1293
- **Product Name:** PROCHLORPERAZINE MALEATE, USP
- **Chemical Name:** Phenothiazine, 2-chloro-10-(3-(4-methyl-1-piperazinyl)propyl)-, maleate (1:2)
- **Synonyms:**
  - 2-Chloro-10-(3-(1-methyl-4-piperazinyl)propyl)phenothiazine, dimaleate
  - 2-Chloro-10-(3-(4-methyl-1-piperazinyl)propyl)phenothiazine dimaleate
  - Compazine
  - Emetiral
  - Meterazin maleate
  - Nibromin A
  - Pasotomin
  - 10H-Phenothisaine, 2-chloro-10-(3-(4-methyl-1-piperazinyl)propyl)-, (Z)-2-butenedioate (1:2)
  - Prochloroproazine hydrogen maleate
  - Prochlorperazine bimaleate
  - Prochlorperazine dimaleate
  - Prochlorperazine hydrogen maleate

- **Recommended use:** Medication, anti-emetic agent, antipsychotic agent.
- **CAS #:** 84-02-6
- **Formula:** C20-H24-Cl-N3-S.2C4-H4-O4
- **RTECS #**
- **Ci#:** Not available
- **Supplier:** Spectrum Chemicals and Laboratory Products, Inc.
  - 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:** Regina Wachenheim (East Coast)
- **Contact Person:** Martin LaBenz (West Coast)

2. HAZARDS IDENTIFICATION
2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Potential Health Effects:

Skin Contact:
May cause skin irritation.

Eye Contact:
Contact with eyes may cause irritation.

Inhalation:
May cause irritation of respiratory tract.

Ingestion:
May be harmful if swallowed. May cause stomach cramping. May cause nausea and vomiting. May affect the cardiovascular system. May affect the blood. May cause central nervous system effects. May affect the liver. It may affect the urinary system. May cause hyperglycemia. It may affect the thyroid.

Chronic Potential Health Effects:

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate 84-02-6 (100)</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Target Organs:
No information available

Mutagenic Effects:
No information available

Teratogenic Effects:
No information available

Aggravated Medical Conditions:

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
<td>84-02-6</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

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

Eye Contact: Flush eye 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. Consult a physician if necessary.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F): Not applicable

Flash Point Tested according to:
Not applicable

Lower Explosion Limit (%): Not applicable
Upper Explosion Limit (%): Not applicable

Autoignition Temperature (°C/°F): Not applicable.

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

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide; Nitrogen oxides; sulfur oxides; hydrogen chloride gas

Specific hazards: May be combustible at high temperatures. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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.

Product code: P1293  Product name: PROCHLORPERAZINE MALEATE, USP
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental Precautions:
No information available.

Methods for Cleaning Up:
Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

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 vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Storage

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

Incompatible Materials:
Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Personal Protective Equipment

Eye protection: Safety glasses Safety glasses with side-shields
Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection: Effective dust mask. Wear respirator with dust filter.

Product code: P1293
Product name: PROCHLORPERAZINE MALEATE, USP
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.

National occupational exposure limits

**United States**

U.S Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate - 84-02-6</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Canada**

Canada Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate - 84-02-6</td>
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<td>None</td>
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<td>None</td>
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</table>

**Australia and Mexico**

Occupational Exposure Limits for Australia and Mexico: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate - 84-02-6</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Odor: Odorless.

Flash point (°C): Not applicable

Autoignition Temperature (°C/°F): No information available

pH: No information available

Density (g/cm3): No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Solubility:
Practically insoluble in water
Practically insoluble in Ethanol

Appearance: Powder. Crystalline powder.

Color: White. Light yellow.

Taste: No information available

Molecular/Formula weight: 606.09

Decomposition temperature(°C/°F): No information available

Specific gravity: No information available

Bulk density: No information available

Vapor pressure @ 20°C (kPa): No information available

Vapor density: No information available

VOCl content (g/L): No information available

Partition coefficient (n-octanol/water): No information available

Miscibility: No information available

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Product code: P1293

Product name: PROCHLORPERAZINE MALEATE, USP
Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Incompatible Materials: Strong oxidizing agents.


Possibility of Hazardous Reactions: No information available

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Prochlorperazine Maleate - 84-02-6

<table>
<thead>
<tr>
<th>Component Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/rat =</td>
<td>750 mg/kg</td>
</tr>
<tr>
<td>LD50/oral/mouse =</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/dermal/rat =</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/dermal/rabbit =</td>
<td>No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat =</td>
<td>No information available</td>
</tr>
<tr>
<td>LC50/inhalation/mouse=</td>
<td>No information available</td>
</tr>
<tr>
<td>Other LD50 or LC50 information</td>
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</tr>
</tbody>
</table>

Product Information

LC50/inhalation/rat No information available

<table>
<thead>
<tr>
<th>Local Effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin irritation:</td>
<td>May cause skin irritation.</td>
</tr>
<tr>
<td>Eye irritation:</td>
<td>May cause eye irritation.</td>
</tr>
<tr>
<td>Inhalation:</td>
<td>May cause irritation of respiratory tract.</td>
</tr>
</tbody>
</table>
Ingestion:
May be harmful if swallowed
Ingestion may cause nausea, vomiting
May cause dry mouth
May cause diarrhea
May cause constipation
May cause blurred vision
May cause nasal congestion
May affect the cardiovascular system (hypotension)
May affect the cardiovascular system (slow heart rate (bradycardia))
May affect the cardiovascular system (tachycardia)
May affect the cardiovascular system (cardiac arrhythmias)
May affect respiration (difficult or labored breathing resulting in shortness of breath)
May affect respiration (respiratory depression)
May affect behavior/central nervous system (dizziness, drowsiness)
May affect behavior/central nervous system (convulsions)
May affect behavior/central nervous system (central nervous system depression, agitation, jitteriness, restlessness, fainting, insomnia)
May cause dystonia, which is defined as prolonged or abnormal contractions of muscle groups. Symptoms may include: spasm of the neck muscles, sometimes progressing tightness of the throat, difficulty swallowing, difficulty breathing, and/or protrusion of the tongue
May cause Parkinson's-like symptoms (Pseudo-parkinonism). They may include: mask-like facies, shuffling gait, cogwheel rigidity, pillrolling motion, drooling, tremors
May cause hyperglycemia

Sensitization:
No information available

Chronic Toxicity

Chronic Toxicity
Prolonged or repeated ingestion may affect the blood (leukopenia, agranulocytosis, eosinophilia, pancytopenia, thrombocytopenic purpura, aplastic anemia, hemolytic anemia). Prolonged or repeated ingestion may affect behavior/central nervous system. May cause Tardive Dyskinesia. It most commonly occurs in patients which psychiatric conditions who are treated with antipsychotic drugs for many months or years. This is a disorder that involves involuntary movements, especially of the lower face. Symptoms include facial grimacing, finger movement, jaw swinging, repetitive chewing and tongue thrusting. Prolonged or repeated ingestion may affect the liver (cholestatic jaundice). Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated ingestion may cause menstrual irregularities or loss of menstrual periods women, abnormal production of breast milk in non-breast feeding women, breast enlargement in men, ejaculatory disorders/impotence in men. Prolonged or repeated ingestion may affect the thyroid (thyroid hypofunction). Prolonged or repeated skin contact may cause allergic reaction. Prolonged or repeated inhalation may cause allergic reaction.

Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA HCS - Carcinogens</th>
<th>ACGIH - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Mutagenic Effects: No information available

Product code: P1293  Product name: PROCHLORPERAZINE MALEATE, USP
Reproductive Effects: May cause adverse reproductive effects based on animal data. May cause adverse developmental effects based on animal data. There are no adequate and well-controlled studies in humans. Data in humans were insufficient to evaluate the effects on reproduction. There have been reports of prolonged jaundice, extrapyramidal effects and/or withdrawal symptoms in newborns of mothers who received phenothiazines near term. The therapeutic use of this material is not recommended late in pregnancy.

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects: No data available.

Aquatic toxicity: No information available

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

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>
<td>Prochlorperazine Maleate</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
Packing Group: None
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): No information available

TDG (Canada)

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
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
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<td>Not present</td>
<td>Not present</td>
<td>9-430</td>
<td>Not present</td>
<td>Present</td>
<td>Present 201-511-3</td>
</tr>
</tbody>
</table>

Product code: P1293
Product name: PROCHLORPERAZINE MALEATE, USP
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>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</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>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
Non-controlled

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prochlorperazine Maleate</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R22 - Harmful if swallowed.

S-phrase(s)
S46 - If swallowed, seek medical advice immediately and show this container or label.

Product code: P1293  Product name: PROCHLORPERAZINE MALEATE, USP
The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 19-Aug-2013
Reason for revision: Not applicable
Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product code: P1293  Product name: PROCHLORPERAZINE MALEATE, USP