Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 16129
Product Name: Chlorpromazine (hydrochloride)
Synonyms: 2-chloro-N,N-dimethyl-10H-phenothiazine-10-propanamine, monohydrochloride; CPZ; Largactil; Promacid; Thorazine;

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
Web site address: www.caymanchem.com
Information: Cayman Chemical Company
+1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:
Acute Toxicity: Inhalation, Category 2
Acute Toxicity: Oral, Category 3

2.2 Label Elements:
2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

GHS Signal Word: Danger
GHS Hazard Phrases:
H330: Fatal if inhaled.
H301: Toxic if swallowed.

GHS Precaution Phrases:
P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.
P284: {In case of inadequate ventilation, } wear respiratory protection {}.
P264: Wash {hands} thoroughly after handling.

GHS Response Phrases:
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a {POISON CENTER/doctor/...}.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330: Rinse mouth.

GHS Storage and Disposal Phrases:
Please refer to Section 7 for Storage and Section 13 for Disposal information.
2.3 Adverse Human Health Effects and Symptoms:
Fatal if inhaled.
Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by skin absorption. May cause eye, skin, or respiratory system irritation. Toxic if swallowed.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS # / RTECS #</th>
<th>Hazardous Components (Chemical Name)/REACH Registration No.</th>
<th>Concentration</th>
<th>EC No./ EC Index No.</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>69-09-0 SO1750000</td>
<td>Chlorpromazine hydrochloride</td>
<td>100.0 %</td>
<td>200-701-3 NA</td>
<td>Acute Tox.(O) 3: H301 Acute Tox.(I) 2: H330</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:
Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media:
A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards:
Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Autoignition Pt: No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures:
- Avoid raising and breathing dust, and provide adequate ventilation.
- As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions:
- Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning:
- Contain spill and collect, as appropriate.
- Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling:
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing:
- Keep container tightly closed.
- Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>Britain EH40</th>
<th>France VL</th>
<th>Europe</th>
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</thead>
<tbody>
<tr>
<td>69-09-0</td>
<td>Chlorpromazine hydrochloride</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>69-09-0</td>
<td>Chlorpromazine hydrochloride</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.):
- Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal Protection Equipment:
- Eye Protection: Safety glasses
- Protective Gloves: Compatible chemical-resistant gloves
- Other Protective Clothing: Lab coat
- Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

8.2.3 Work/Hygienic/Maintenance Practices:
- Do not take internally.
- Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
- Wash thoroughly after handling.
- No data available.
Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas  [ ] Liquid  [X] Solid

Appearance and Odor: A crystalline solid

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Explosive Limits: LEL: No data.  UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Solubility Notes: ~10 mg/ml in PBS (pH 7.2); ~30 mg/ml in EtOH, DMSO, & DMF;

Autoignition Pt: No data.

9.2 Other Information

Molecular Formula & Weight: C17H19ClN2S • HCl  355.3

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Un稳定 [ ]  稳定 [ X ]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

10.4 Conditions To Avoid: No data available.

10.5 Incompatibility - Materials

To Avoid: strong oxidizing agents

carbon dioxide

carbon monoxide

10.6 Hazardous

Decomposition Or Byproducts: hydrogen chloride gas

nitrogen oxides

sulfur oxides
### Section 11. Toxicological Information

**11.1 Information on Toxicological Effects:**

The toxicological effects of this product have not been thoroughly studied. Chlorpromazine (hydrochloride) - Toxicity Data:

- Oral TDLO (man): 6071 µg/kg; Oral TDLO (man): 18 mg/kg/5D (intermittent); Oral TDLO (woman): 6 mg/kg; Oral TDLO (woman): 35 gm/kg/16Y (intermittent); Oral LD50 (rat): 145 mg/kg; Inhalation LC50 (rat): 40 mg/m3/2H; Oral LD50 (mouse): 135 mg/kg; Inhalation LC50 (mouse): 40 mg/m3/2H; Subcutaneous LD50 (mouse): 420 mg/kg; Oral LD (monkey): >30 mg/kg;

Chlorpromazine (hydrochloride) - Investigated as a mutagen and reproductive effector. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Chlorpromazine (hydrochloride) RTECS Number: SO1750000

**Carcinogenicity:**

NTP? No  IARC Monographs? No  OSHA Regulated? No

### Section 12. Ecological Information

**12.1 Toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**12.2 Persistence and Degradability:**

No data available.

**12.3 Bioaccumulative Potential:**

No data available.

**12.4 Mobility in Soil:**

No data available.

**12.5 Results of PBT and vPvB assessment:**

No data available.

### Section 13. Disposal Considerations

**13.1 Waste Disposal Method:**

Dispose in accordance with local, state, and federal regulations.

### Section 14. Transport Information

**14.1 LAND TRANSPORT (US DOT):**

DOT Proper Shipping Name: Toxic solids, organic, n.o.s. (Chlorpromazine hydrochloride)

DOT Hazard Class: 6.1  POISON

UN/NA Number: 2811  Packing Group: I

**14.1 LAND TRANSPORT (European ADR/RID):**

ADR/RID Shipping Name: Toxic solids, organic, n.o.s. (Chlorpromazine hydrochloride)

UN Number: 2811  Packing Group: I

Hazard Class: 6.1 - POISON

**14.3 AIR TRANSPORT (ICAO/IATA):**

ICAO/IATA Shipping Name: Toxic solids, organic, n.o.s. (Chlorpromazine hydrochloride)

UN Number: 2811  Packing Group: I

Hazard Class: 6.1 - POISON  IATA Classification: 6.1

**Additional Transport Information:**

Transport in accordance with local, state, and federal regulations.

Multi-region format
## Section 15. Regulatory Information

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>69-09-0</td>
<td>Chlorpromazine hydrochloride</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Other US EPA or State Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>69-09-0</td>
<td>Chlorpromazine hydrochloride</td>
<td>CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No</td>
</tr>
</tbody>
</table>

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

## Section 16. Other Information

**Revision Date:** 01/05/2015

**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** DISCLAIMER: This information 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 purposes.