MATERIAL SAFETY DATA SHEET

Product Name: Promethazine Hydrochloride Injection, USP

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<table>
<thead>
<tr>
<th>Manufacturer Name</th>
<th>Hospira, Inc.</th>
</tr>
</thead>
</table>
| And Address       | 275 North Field Drive  
|                   | Lake Forest, Illinois 60045  
|                   | USA |
| Emergency Telephone | CHEMTREC: 800 424-9300  
|                   | Hospira, Inc.  
|                   | 224 212-2055 |
| Product Name      | Promethazine Hydrochloride Injection, USP |
| Synonyms          | None |

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Promethazine Hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Formula</td>
<td>C_{17}H_{20}N_{2}S \cdot HCl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Approximate Percent by Weight</th>
<th>CAS Number</th>
<th>RTECS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promethazine Hydrochloride</td>
<td>2.5</td>
<td>58-33-3</td>
<td>SO8225000</td>
</tr>
<tr>
<td>Water</td>
<td>97</td>
<td>7732-18-5</td>
<td>ZC0110000</td>
</tr>
</tbody>
</table>

3. HAZARD INFORMATION

<table>
<thead>
<tr>
<th>Emergency Overview</th>
<th>Promethazine Hydrochloride is a histamine antagonist used to treat allergies, provide sedation and prevent vomiting. Target organs are the central nervous system, eyes, skin and possibly the fetus.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Exposure Potential</td>
<td>Information on the absorption of this compound via ingestion, inhalation or skin contact is not available. Avoid liquid aerosol generation and skin contact with solution.</td>
</tr>
<tr>
<td>Signs and Symptoms</td>
<td>Direct contact would cause eye irritation. Clinical data suggests drowsiness is the most prominent central nervous system effect.</td>
</tr>
<tr>
<td>Medical Conditions Aggravated by Exposure</td>
<td>The available data suggest pre-existing eye ailments and hypersensitivity to promethazine. Possibly pregnancy.</td>
</tr>
</tbody>
</table>
Product Name: Promethazine Hydrochloride Injection, USP

5. FIRST AID MEASURES

Eye Contact: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Skin Contact: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Inhalation: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Ingestion: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable.

Fire & Explosion Hazard: None

Extinguishing Media: Use extinguishing media appropriate for the underlying cause of fire.

Special Fire Fighting Procedures: No special provisions required beyond normal fire fighting equipment such as flame and chemical resistant clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal: Absorb liquid with suitable material and clean affected area with soap and water. Dispose of materials according to the applicable federal, state, or local regulations.

7. HANDLING AND STORAGE

Handling: No special handling required.

Storage: No special storage required for hazard control. For product protection store at controlled room temperature of 15-30°C (59-86°F).

Special Precautions: Protect from freezing and extreme heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA-PEL</th>
<th>ACGIH-TLV</th>
<th>Hospira EEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promethazine Hydrochloride</td>
<td>8 hr TWA: Not Established</td>
<td>8 hr TWA: Not Established</td>
<td>8 hr TWA: 50 mcg/m3</td>
</tr>
</tbody>
</table>

Notes: OSHA PEL: US Occupational Safety and Health Administration – Permissible Exposure Limit
ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value.
EEL: Employee Exposure Limit.
TWA: 8 hour Time Weighted Average.
STEL: 15-minute Short Term Exposure Limit.
Product Name: Promethazine Hydrochloride Injection, USP

Respiratory Protection
Respiratory protection is not needed during normal product use.

Skin Protection
If solution contact with unprotected skin is likely, use of impervious gloves is a prudent practice.

Eye Protection
Eye protection is not required during expected product use conditions but may be warranted should a splash potential exist.

Engineering Controls
Engineering controls are not needed during normal product use conditions.

9. PHYSICAL/CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State</td>
<td>Clear solution</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water, methanol, ethanol</td>
</tr>
<tr>
<td>pH</td>
<td>4.0 – 5.5</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under standard use and storage conditions.

Incompatibilities
Oxidizing agents

Hazardous Decomposition Products
Oxides of nitrogen

Hazardous Polymerization
None

11. TOXICOLOGICAL INFORMATION:

Toxicity

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Percent</th>
<th>Test Type</th>
<th>Value</th>
<th>Units</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promethazine Hydrochloride</td>
<td>100</td>
<td>LD50</td>
<td>255</td>
<td>mg/kg</td>
<td>Mice</td>
</tr>
</tbody>
</table>

LD50 is the dosage producing 50% mortality.
Product contains approximately 2.5% Promethazine Hydrochloride.

Mutagenicity
Negative in the Ames test.

Target Organ Effects
Target organs are the central nervous system, eyes, skin and possibly the fetus.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity
Not determined.
Product Name: Promethazine Hydrochloride Injection, USP

13. DISPOSAL CONSIDERATIONS:

Waste Disposal
Disposal should be performed in accordance with the federal, state or local regulatory requirements.

Container Handling and Disposal
Dispose of container and unused contents in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT
Not Regulated

Notes: DOT - US Department of Transportation Regulations

15. REGULATORY INFORMATION

TSCA Status
Not Regulated

CERCLA Status
Not Regulated

SARA Status
Not Regulated

RCRA Status
Not Regulated

PROP 65 (Calif.)
Not Regulated

Notes: TSCA Toxic Substance Control Act
CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act
SARA Superfund Amendments and Reauthorization Act
RCRA US EPA, Resource Conservation and Recovery Act
Prop 65, California Proposition 65

16. OTHER INFORMATION:

MSDS Coordinator
Global Occupational Toxicology

Date Prepared
September 15, 2005

Date Revised
October 21, 2008

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