Product Name: Atropine Sulfate Injection, USP

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer Name: Hospira, Inc.
And Address: 275 North Field Drive
Lake Forest, Illinois 60045
USA

Note: Hospira, formerly the Hospital Products Division of Abbott Laboratories, was created as an independent company in May 2004.

Emergency Telephone:
CHEMTREC: 800 424-9300
Hospira, Inc.: 224 212-2055

Product Name: Atropine Sulfate Injection, USP
Synonyms: None

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name: Atropine Sulfate
Chemical Formula: C₃₄H₄₆N₂O₆. H₂O₄S

<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>Atropine Sulfate</td>
<td>&lt;0.01</td>
<td>55-48-1</td>
<td>CK2450000</td>
</tr>
<tr>
<td>Water</td>
<td>99</td>
<td>7732-18-5</td>
<td>ZC0110000</td>
</tr>
</tbody>
</table>

3. HAZARD INFORMATION

Emergency Overview: In clinical use, this material reverses the effects of acetylcholine in the body producing changes on many organ systems including the eyes, gastrointestinal tract, heart, lung and central nervous system. The active ingredient is considered to be toxic by ingestion.

Occupational Exposure Potential: 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.

Signs and Symptoms: No signs or symptoms from occupational exposure are known. In clinical use, atropine can cause suppressed salivation, dilated pupils, blurred vision, hot/dry sensation, disorientation, increased heart rat, constipation, nausea, urinary retention and hesitancy, palpitation, dizziness, drowsiness, decreased bronchi secretion, photophobia, dry mouth, fever, glaucoma, difficulty breathing, flushing, rashes and vomiting.

Medical Conditions Aggravated by Exposure: Sensitivity to atropine and belladonna alkaloids. Concurrent glaucoma, tachycardia, gastrointestinal or biliary tract obstruction. Prostate hypertrophy.
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>Atropine Sulfate</td>
<td>8 hr TWA: Not Established</td>
<td>8 hr TWA: Not Established</td>
<td>8 hr TWA: 4 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: Atropine Sulfate 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>Appearance/Physical State</th>
<th>Clear liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Approximately that of water (100 °C, 212 °F).</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Approximately that of water (0°C, 32 °F).</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Approximately that of water (17.5 mm Hg at 20 °C).</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>Approximately that of water (1.0).</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water, methanol, ethanol</td>
</tr>
<tr>
<td>pH</td>
<td>3.5 – 6.5</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Chemical Stability**
Stable under standard use and storage conditions.

**Incompatibilities**
None

**Hazardous Decomposition Products**
Oxides of nitrogen and sulfur.

**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>Atropine Sulfate</td>
<td>100</td>
<td>LD50</td>
<td>468-765</td>
<td>mg/kg</td>
<td>Rats, Mice</td>
</tr>
</tbody>
</table>

**Mutagenicity**
Not determined.

**Target Organ Effects**
Atropine is a drug that is used to reverse the effects of acetylcholine at post-ganglionic receptors in the body. It is a potent bronchodilator. When applied directly to the eyes, it dilates the pupils.
Product Name: Atropine Sulfate Injection, USP

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity

Not determined.

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

Atropine Sulfate is listed on the TSCA inventory.

CERCLA Status

Not Regulated

SARA Status

Not Regulated

RCRA Status

Not Regulated

PROP 65 (Calif.)

Not Regulated


16. OTHER INFORMATION:

MSDS Coordinator T. Straits MPH, CIH

Date Prepared September 15, 2005

Disclaimer:
The information and recommendations contained herein are based upon tests believed to be reliable. However, Hospira does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. Hospira 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.