MATERIAL SAFETY DATA SHEET

Product Name: Etomidate Injection (Amidate®)

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 |

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  
|                     | 224 212-2055 |

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Etomidate Injection (Amidate®)</th>
</tr>
</thead>
</table>

| Synonyms     | Amidate®                      |

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Etomidate Hydrochloride</th>
</tr>
</thead>
</table>

| Chemical Formula | C₁₄H₁₆N₂O₂·HCl |

<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>Etomidate Hydrochloride</td>
<td>0.2</td>
<td>53188-20-8</td>
<td>NI4020500</td>
</tr>
<tr>
<td>Propylene Glycol, USP</td>
<td>35</td>
<td>57-55-6</td>
<td>TY2000000</td>
</tr>
<tr>
<td>Water</td>
<td>64</td>
<td>7732-18-5</td>
<td>ZC0110000</td>
</tr>
</tbody>
</table>

3. HAZARD INFORMATION

<table>
<thead>
<tr>
<th>Emergency Overview</th>
<th>In clinical use, this material is used to induce sleep. Target organs include the central nervous system, the lungs and adrenal gland.</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>No signs or symptoms from occupational exposure are known. In clinical use, etomidate induces sleep. Signs of overdose include deep sleep and respiratory difficulties to the point of respiratory arrest.</td>
</tr>
<tr>
<td>Medical Conditions Aggravated by Exposure</td>
<td>Data suggest pre-existing central nervous system or respiratory ailments or persons with impaired adrenocortical function. Concurrent intake of depressants like alcohol or monoamine inhibitors.</td>
</tr>
</tbody>
</table>
4. 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. Etomidate hydrochloride is dissolved in water.

**Fire & Explosion Hazard:** None

**Extinguishing Media:** Use extinguishing media appropriate for primary 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>Etomidate Hydrochloride</td>
<td>8 hr TWA: Not Established</td>
<td>8 hr TWA: Not Established</td>
<td>8 hr TWA: Not Established STEL: 700 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.

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

Appearance/Physical State
Clear liquid

Odor
None

Boiling Point
Approximately that of water (100 °C, 212 °F).

Freezing Point
Approximately that of water (0°C, 32 °F).

Vapor Pressure
Approximately that of water (17.5 mm Hg at 20 °C).

Vapor Density (Air=1)
Not Applicable

Evaporation Rate
Not Applicable

Bulk Density
Not Applicable

Specific Gravity
Approximately that of water (1.0).

Solubility
Not Applicable

pH
4.0 - 7.0

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under standard use and storage conditions.

Incompatibilities
None

Hazardous Decomposition Products
Oxides of carbon and nitrogen

Hazardous Polymerization
None
Product Name: Etomidate Injection (Amidate®)

11. TOXICOLOGICAL INFORMATION:

<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>Etomidate Hydrochloride</td>
<td>100</td>
<td>LD50 (iv)</td>
<td>14.8 - 29.5</td>
<td>mg/kg</td>
<td>Mice, Guinea Pigs, Dogs</td>
</tr>
</tbody>
</table>

LD50 (iv) is the intravenous dosage that produces 50% mortality. Product contains approximately 0.2% Etomidate Hydrochloride.

Mutagenicity
Negative in the Ames test.

Target Organ Effects
In clinical use target organ effects include central nervous system, lungs and adrenal gland.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity
Not Available

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 T. Straits MPH, CIH
Date Prepared September 15, 2005

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