Revision Date: 4/15/06

1. **Chemical Product & Company Information**
   
   Product: TUNGSTEN POWDER
   
   Buffalo Tungsten Inc
   2 Main St
   Depew, NY 14043
   Tel: 716-683-9170
   Fax: 716-683-0471

2. **Composition Data**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>EINCES No</th>
<th>STEL (mg/m³)</th>
<th>TWA (mg/m³)</th>
<th>Typical Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tungsten</td>
<td>7440-33-7</td>
<td>231-143-9</td>
<td>10</td>
<td>5</td>
<td>99.9</td>
</tr>
</tbody>
</table>

3. **Hazard Identification**

   **Emergency Overview**
   
   No spill hazard, minimal health risk

**POTENTIAL HEALTH EFFECTS**

   EYES: Irritation possible
   SKIN: Irritation possible
   INHALATION: None
   INGESTION: Gastrointestinal irritation possible
   MEDICAL CONDITIONS AGGRAVATED: Exposure to tungsten dust or fume may aggravate chronic respiratory disease
   CHRONIC OVEREXPOSURE: Not known
   ACUTE: OVEREXPOSURE: Not known
   CARCINOGENICITY: None

4. **First Aid Measures**

   EYES: Flush with large amounts of water for 15 minutes. If irritation occurs, seek medical attention.
   SKIN: Wash with soap and water. If irritation occurs, seek medical attention.
   INHALATION: Remove from exposure. If necessary aid breathing and seek medical attention.
   INGESTION: If large amounts are ingested, consume large quantities of water and induce vomiting. Seek medical attention.

5. **Fire Fighting Measures**

   FLAMMABLE PROPERTIES: Non-flammable
   FLASH POINT: N/A
   FLAMMABLE LIMITS (% Vol in Air):
MATERIAL SAFETY DATA SHEET

6. **Accidental Release Measures**

   SMALL/LARGE SPILL: Avoid dust generation. Provide adequate ventilation and use approved respirators. Vacuum or wet clean up methods are recommended to reduce dust generation. Use an approved filter when vacuuming.

7. **Handling and Storage**

   HANDLING: Maintain good housekeeping practices to prevent dust accumulation.
   STORAGE: Keep container closed.

8. **Exposure Controls/Personal Protection**

   ENGINEERING CONTROLS: General and local ventilation is recommended
   RESPIRATORY PROTECTION: A NOISH-approved respirator is required if TLV is exceeded
   SKIN AND HAND PROTECTION: Protective gloves are recommended
   EYE AND FACE PROTECTION: Safety glasses are recommended
   OTHER PROTECTIVE EQUIPMENT: None under normal conditions

9. **Physical and Chemical Properties**

   APPEARANCE: Gray to dark gray powder
   BOILING POINT: 5900°C (10652°F)
   MELTING POINT: 3410°C (6170°F)
   VAPOR PRESSURE: N/A
   VAPOR DENSITY: N/A
   SOLUBILITY IN WATER: Insoluble
   DENSITY: 19.3 g/cc
   PH: N/A
   ODOR: none
   PERCENT VOLATILES: <0.1%
   EVAPORATION RATE: N/A

10. **Stability and Reactivity**

    CHEMICAL STABILITY: Stable
    INCOMPATABILITY: Tungsten is slightly soluble in nitric acid, sulfuric acid and aqua regia. It is soluble in a mixture of HF acid and nitric acid. Vigorous reaction with bromine trifluoride. Tungsten becomes incandescent in cold fluorine, lead oxide and iodine pentafluoride. Avoid oxidizers.
    HAZARDOUS DECOMPOSITION PRODUCTS: none
11. **Toxicological Information**

None

12. **Ecological Information**

None

13. **Disposal Consideration**

Dispose of the material in accordance with all government regulations. Material can be sold for reclaim.

14. **Transportation Information**

HAZARD CLASS: 4.1 Flammable Solid (For powders less than 0.7 microns)
IDENTIFICATION NO: UN3089
PACKING GROUP: III
SHIPPING NAME: Metal Powders, flammable, n.o.s., tungsten powder
ADR/RID ITEM: 13c
ADR/RID DANGER CODE: 40

15. **Regulatory Information**

**US FEDERAL REGULATIONS**
TSCA STATUS: Listed on Toxic Substance Control Inventory
CERCLA REPORTABLE QUANTITY: none
SARA TITLE III: Section 311/312 Hazardous Categories- Acute, Chronic
RCRA STATUS: not regulated

**INTERNATIONAL REGULATIONS**
CANADIAN WHMIS: not regulated

**RISK/SAFETY PHRASES**
F Highly flammable
11 Highly flammable
22 Do not breathe dust
33 Take precautionary measures against static discharges

16. **Other Information**

HMIS HAZARD RATING: Heath = 1, Fire = 0, Reactivity = 0