MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

Trade Name: Aluminum Iodide
Chemical Formula: Metal Halide
Formula: AlI₃
CAS #: 7784-23-8

II HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>%</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Iodide</td>
<td>0-100</td>
<td>15 mg(AI)/m³, as dust</td>
<td>5 mg(AI)/m³, as fume</td>
</tr>
</tbody>
</table>

TSCA: Listed on the TSCA inventory.

III PHYSICAL DATA

Boiling Point: 360 °C
Melting Point: 191 °C
Specific Gravity: 3.98 g/cc
Appearance and Odor: White to brown powder
Solubility: Soluble in carbon disulfide, alcohol, ether, liquid ammonia.

IV PHYSICAL HAZARDS

Flash Point: N/E or N/A
Autoignition Temperature: N/E or N/A
Explosive Limits: Lower: N/A Upper: N/A

Extinguishing Media: Use suitable extinguishing media for surrounding materials and type of fire. DO NOT USE WATER.

Special Firefighting Procedures: Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous.

Unusual Fire and Explosion Hazards: Reacts violently with water. Exothermic reaction with water. May emit toxic fumes of hydrogen iodide if involved in a fire.

V HEALTH HAZARD INFORMATION

Threshold Limit Value: Air: 0.1 ppm for 12 hr
Routes of Entry: Skin and eye contact, inhalation, ingestion.

Effects of Overexposure:

Aluminum is not generally regarded as and industrial poison. Salts of aluminum may cause dermatomes, eczema, conjunctivitis, and irritation of the mucous membranes of the upper respiratory system by the acid liberated by hydrolysis.

Prolonged exposure to iodides may result in "iodism". Symptoms include rash, runny nose, headache, irritation of mucous membranes.
EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air.
INGESTION: Call physician or poison control center.
SKIN: Wash thoroughly with soap and water.
EYES: Flush with water for at least 15 minutes.

VI REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Light, water/moisture, air.
Incompatibilities (Materials to Avoid): Water/moisture.

Hazardous Polymerization: Will not occur.

VII SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Sweep or scoop up.

Waste Disposal Method: Dispose of in accordance with federal, state, and local regulations.

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use dust mask or respirator if exposed to dust or fumes.

Other Protective Equipment: Wear gloves, safety glasses, protective clothing.

IX SPECIAL PRECAUTIONS

Handling and Storage Conditions: Store in tightly closed containers in cool, dry place and protected from light.

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. ESPI shall not be held liable for any damage resulting from handling or from contact with the above product.

Issued By: S. Dierks
Dated: April 1994