

1050 Benson Way, Ashland, OR 97520 Toll Free (800) 638-2581 \* Fax (541) 488-8313 E-Mail: sales@espimetals.com

# **MATERIAL SAFETY DATA SHEET**

I PRODUCT IDENTIFICATION				
<b>Trade Name</b> : Alumin <b>Formula</b> : AlI <sub>3</sub>	um Iodide		Chemical Formula: CAS #:	Metal Halide 7784-23-8
II HAZARDOUS INGREDIENTS				
<u>Hazardous Components</u>	%	OSHA/PEL	ACGIH/TLV	
Aluminum Iodide	0-100	$15 \text{ mg(Al)/m}^3$ , as dust	$5 \text{ mg(A1)/m}^3$ , as fume	
TSCA: Listed on the TSCA inventory.   III PHYSICAL DATA				
Boiling Point:	360 °C		Melting Point:	191 °C
Specific Gravity: Solubility:			Appearance and Odor:	White to brown powder
IV PHYSICAL HA	ZARDS		A	
Flash Point: N/E or N/A Autoignition Temperature: N/E or N/A   Explosive Limits: Lower: N/A Upper: N/A				
<b>Extinguishing Media</b> : Use suitable extinguishing media for surrounding materials and type of fire. DO NOT USE WATER. <b>Special Firefighting Procedures</b> : 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.				
<b>Unusual Fire and Explosion Hazards</b> : 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 throughly 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 Decomposition Products: Hydrogen iodide, metal oxide fume, heat. 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

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