

## Material Safety Data Sheets

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### Section 1 – Product Information

#### Aluminum Powder

**Common Chemical Name:** Atomized Aluminum Powder

**Synonyms:** N/A

**Chemical Family:** Aluminum

**Molecular Weight:** Not Established

### Section 2 - Ingredients

Chemical:	CAS	Amount	ACGIH TLV-TWA	OSHA PEL-TWA
Aluminum	7429-90-5	>99%	10 mg/m <sup>3</sup>	15; 5 mg/m <sup>3</sup>

Note: The OSHA exposure limits for Aluminum list exposure for “Total Dust” and “Respirable Fraction”, respectively. All products are not listed as Carcinogen in NTP, IARC, or OSHA 1910(z).

### Section 3- Hazardous Identification

<b>Color:</b>	Silvery-white
<b>Form/Appearance:</b>	Powder
<b>Odor:</b>	None
<b>Odor Intensity:</b>	None

#### Nature of Hazard

**Emergency Overview:** Aluminum metallic powder is an eye and mucous membrane irritant.

**Eye Contact:** May cause irritation.

**Skin Contact:** May cause irritation.

**Inhalation:** May cause irritation to mucous membranes.

### Section 4 – First Aid

**Eye:** Flush with large amounts of clean water for 15 minutes. If irritation persists, get medical attention. Contact lenses should not be worn while working with this chemical.

**Skin:** Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. Get medical attention if irritation develops or persists. Wash clothing before reuse.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

### Section 5 – Fire Fighting Measures

**Extinguishing Media:** Dry sand, dry inert granular material or powder, or approved dry powder extinguishing agent. DO NOT USE WATER. DO NOT DISTURB BURNING METAL WHILE EXTINGUISHING THE FIRE. Avoid generating sparks or ignition sources in areas of high airborne dust levels or in areas with accumulated dust.

**Flash Point:** N/A

**Autoignition Temp:** Cloud: 1,202°F (650°C)  
Layer: 1,095°F (590°C)

## Section 6 – Accidental Release Measures

**General:** Never employ water, have sand pails available. Use non-sparking, non-static generating implements. Sweep gently to avoid dust cloud formation. Wet or contaminated material should be placed in vented containers and moved to a remote area. Keep spill out of drains, sewers and waterways. Use sand or containers for proper disposal.

**Waste Disposal:** Observe all local, state and federal regulations when disposing of this substance.

## Section 7 – Handling and Storage

**Storage:** Protect against water. Store in a cool, dry place away from incompatible chemicals and possible sources of ignition or exposure to prolonged heat. Ground all handling and transfer operations and use explosion-proof electrical equipment. No smoking or open flames.

## Section 8 – Exposure Controls & Personal Protection

**Clothing:** Gloves, coveralls, apron, boots as necessary to prevent skin contact.

**Eyes:** Chemical goggles. Contact lenses should not be worn.

**Respiration:** Use a NIOSH-approved respirator to prevent overexposure.

**Ventilation:** Sufficient ventilation, in both volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limits.

## Section 9 – Physical & Chemical Properties

**Color:** Silvery-white

**Form:** Powder

**Odor:** None

**Odor Intensity:** None

**Specific Gravity:** H<sub>2</sub>O=1 2.7

**Boiling Pt:** 4,473°F (2,467°C)

**Melting Pt:** 1,200°F (660°C)

**Solubility:** Insol.

**Evaporation Rate:** N/A

**Vapor Density:** N/A

**Vapor Pressure:** 1 mmHg @2,343°F

## Section 10 – Stability & Reactivity

**Stability:** Stable

**Conditions to Avoid:** Exposure to moisture and temperatures above 130F

**Incompatibility:** Water, acids, strong alkalis, strong bases, strong oxidizers, silver chloride, iodates, chlorinated hydrocarbons, oxides, nitrites, nitrates, carbon disulfide, chlorides, sodium peroxide plus carbon dioxide, sulfur dichloride, palladium, manganese, magnesium plus potassium chlorate, sodium carbonate, sulfates, and diborane.

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition:** Reacts with water, acids, and alkalis to form combustible hydrogen gas.

## Section 11 – Toxicological Information

No applicable data for this section.

## Section 12 – Ecological Information

No applicable data for this section.

## Section 13 – Disposal Information

**Waste Disposal:** Observe all local, state, and federal regulations when disposing of this substance.

## Section 14 - Transportation Information

Not regulated by the Department of Transportation

## Section 15 - Regulatory Information

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<b>Chemical:</b>	<b>CAS</b>	<b>Amount</b>
Aluminum	7429-90-5	>99% (fume or Dust)

**Hazardous Rating:** Health 1      Fire 3      Reactivity 1

This aluminum powder is classified as fume or dust.

## Section 16 - Other Information

No Data Available.

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To the best of our knowledge, the information contained herein is accurate. However Alumilite does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although we have described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist. While the descriptions, designs, data, and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Alumilite hereunder are given gratis and Alumilite assumes no obligation or liability for the description, designs, data, and information given or results obtained, all such being given and accepted at your risk.

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