

# MATERIAL SAFETY DATA SHEET

## ATOMIZED ALUMINUM POWDER

C.A.S. Number: 7429-90-5

**PRODUCT/MATERIAL:** MIPAL\*  
**DISTRIBUTOR:** Sokolowski Studios LLC  
**ADDRESS:** 111 Mid Valley Rd., Lake Ariel, PA 18436  
**TELEPHONE:** (570) 937-9400  
**EMERGENCY CONTACT:** **CHEMTREC** (800) 424-9300  
(703) 527-3887 (Outside the USA)  
To be used "ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICALS".

### SECTION 1 – MATERIAL IDENTIFICATION

**PRODUCT NAME:** ATOMIZED ALUMINUM POWDER, Granules  
**CAS #:** 7429-90-5

#### HMIS RATING

**HEALTH:** 1  
**FLAMMABILITY:** 3  
**REACTIVITY:** 1  
**PERSONAL PROTECTION:** E

### SECTION 2 – INGREDIENTS AND EXPOSURE LIMITS

<u>Ingredient</u>	<u>CAS Number</u>	<u>%</u>	<u>ACGIH TLV-TWA</u>	<u>OSHA PEL-TWA</u>
Aluminum	7429-90-5	>99	10 mg/m3	15; 5 mg/m3

Note: The OSHA exposure limits for Aluminum list exposure for "Total Dust" and "Respirable Fraction", respectively.

### SECTION 3 – PHYSICAL DATA

**Appearance and Odor:** Silvery-white powder.  
**Boiling Point:** 4473 (F) (2467 (C))  
**Melting Point:** 1220 (F) (660 (C))  
**Evaporation Rate:** N/A  
**Vapor Density (air=1):** N/A  
**Vapor Pressure: mmHg** 1@ 2343 (F)  
**% Volatile by Volume:** N/A  
**Specific Gravity: H20 = 1** 2.7  
**Molecular weight:** 26.98  
**Water Solubility (%):** Insoluble

## 2 SECTION 4 – FIRE AND EXPLOSION DATA

**Flash point:** N/A  
**Limits: LEL%:** 0.040 oz /ft<sup>3</sup>  
**UEL%:** N/A

### **Auto Ignition**

**Temperature:** Cloud: 1202 (F (650 (C)  
**Layer:** 1094 (F (590 (C)

**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.

## SECTION 5 – REACTIVITY DATA

**Stability:** Material is stable.  
**Conditions to avoid:** Avoid ignition sources, sparks, open flames, and generation of airborne dusts.  
**Hazardous polymerization:** Will not occur.

**Chemical incompatibilities:** 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, diborane.

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

## SECTION 6 – HEALTH HAZARD INFORMATION

**Target organs:** Eyes, skin, mucous membranes.  
**Primary entry route(s):** Inhalation, skin or eye contact.  
**Health Effects:** Aluminum metallic powder is an eye and mucous membrane irritant.

### FIRST AID

**Eye contact:** Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention immediately. Contact lenses should not be worn while working with this chemical.

**Skin contact:** Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention.

**Inhalation:** Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Keep the affected person warm and at rest. Get medical attention as soon as possible.

### 3 **SECTION 7 – SPILL, LEAK AND DISPOSAL PROCEDURES**

**Spill/leak procedures:** 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 other inert material to contain spill. Place in leak proof containers for proper disposal.

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

### **SECTION 8 – SPECIAL PROTECTION INFORMATION**

#### **Personal protective equipment:**

**Goggles:** Wear safety glasses with side shields or goggles as appropriate.  
Contact lenses should not be worn.

**Gloves/Clothing:** Recommended use.

**Respirator:** If exposure may or does exceed occupational exposure limits, use a NIOSH-approved respirator to prevent overexposure.

#### **Workplace**

**considerations:** Eye wash fountain and shower.

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

### **SECTION 9 – SPECIAL PRECAUTIONS**

**Special handling/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 10 – CARCINOGENICITY STATUS**

**NTP:** Not listed.

**IARC:** Not listed.

**OSHA:** Not listed.

### **SECTION 11 – SECTION 313 SUPPLIER NOTIFICATION**

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><u>CAS#</u></b>	<b><u>Chemical Name</u></b>	<b><u>Percent by Weight</u></b>
7429-90-5	Aluminum (fume or dust)	>99%

This aluminum powder is classified as fume or dust.

This information must be included in all MSDSs that are copied and distributed for this material.

4 **SECTION 12: OTHER INFORMATION**

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge. However, this is not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer or distributor be responsible for the damages of any nature whatsoever resulting from the use of or reliance upon information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, THAT THE PRODUCTS TO WHICH THE INFORMATION REFERS MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS. IN NO CASE SHALL THE INFORMATION BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.

Reviewed by Manufacturer: 06/12