

**MATERIAL SAFETY DATA SHEET**

**CHEMICAL NAME/SYNONYMS:** Aluminum Cast Particles

**CHEMICAL FAMILY:** AL

**FORMULA:** Blended

**PRODUCT CODE:** ABRA299

**HAZARDOUS MATERIAL IDENTIFICATION SYSTEM**

Health 1  
Flammability 0  
Reactivity 1  
Protection -

**HAZARDOUS INGREDIENTS**

This product contains hazardous ingredients.

<u>Chemical / Common Name</u>	<u>CAS-Number</u>	<u>&amp;</u>	<u>PEL-OSHA TLV-ACGIH</u>
Aluminum	7429-90-5	>96	10 mg/m3
Product includes Aluminum Dust and under some circumstances may produce Aluminum Fumes	7429-90-5		5 mg/m3

The above toxic chemicals are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

This product contains Carcinogens (NTP, IARC, OR OSHA): Not Applicable

<u>Chemical / Common Name</u>	<u>CAS-Number</u>	<u>&amp;</u>	<u>NTP IARC OSHA</u>
N/A	N/A		

**HEALTH HAZARD DATA**

HEALTH EFFECTS (Acute and Chronic)-High exposure to aluminum dust may produce irritation of eyes and respiratory system.

PRIMARY ROUTES ON ENTRY-Respiratory-inhalation of dust or fume.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-Asthma and other respiratory conditions.

EMERGENCY FIRST AID PROCEDURES-Remove from exposure, flush with water to remove particles from eyes if applicable.

**CHEMICAL DATA**

Boiling Point (F):	4220	Specific Gravity (water=1):	2.70
Vapor Pressure (mmHg):	N/A	Percent Volatile by Volume (%):	N/A
Vapor Density (AIR=1):	N/A	Evaporation Rate (will not vaporize=1):	N/A

SOLUBILITY IN WATER-N/A

APPEARANCE AND ODOR INFORMATION-Light grey metal, granules-powder. No odor.

## **PHYSICAL HAZARD DATA**

Flash Point (Method Used): N/A

Flammable Limits: Lel=N/A

UEL=N/A

EXTINGUISHING MEDIA-Contain fire with dry sand. Ring fire with sand using nonsparking implements. Allow fire to consume itself. Do not use water. Do not use halogenated extinguishing agents.

SPECIAL FIRE FIGHTING PROCEDURES-See above.

UNUSUAL FIRE AND XPLOSION HAZARDS-Aluminum dust may be ignited by static discharge and burn at extremely high temperature. In bulk form, it is ignitable only with difficulty; however, once suspended in a dust-laden air cloud, is ignitable and explosive.

INCOMPATIBILITY (Materials to Avoid)-water (Heat generation including ignition may occur if product is damp or exposed to water), Mineral Acids, Harsh Alkalis and Halogenated Compounds.

HAZARDOUS DECOMPITION PRODUCTS-Metal oxides, hydrogen

WILL HAZARDOUS POLYMERIZATION OCCUR-Will not occur

CONDITIONS TO AVOID FOR POLYMERIZATION-N/A

IS THE PRODUCT STABLE-Yes

CONDITIONS TO AVOID FOR STABILITY-Improper storage which would allow introduction of water and/or foreign matter.

## **SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-Clean by scooping and mild brushing. Cleaning should be done with a soft brush and pickup should be with nonspark conductive scoops. Never employ water. Avoid action that would create dust-laden cloud or cause powder to disperse in air. See NFPA #651.

WASTE DISPOSAL METHODS-Dispose of in accordance with local, state and federal regulations. Scrap aluminum can often be reclaimed and recycled.

## **EXPOSURE CONTROL INFORMATION**

VENTILATION-

Local Exhaust: When needed

Mechanical (General): Dust collectors

Special: Approved dust masks

Other: N/A

RESPIRATORY PROTECTION-Wear MSHA/NIOSH approved air purifying respiratory equipment with dust filter

PROTECTIVE GLOVES-Not Required

OTHER PROTECTIVE EQUIPMENT-Safety glasses with side shields. Safety eyewash station in close proximity to work areas is recommended.

OTHER ENGINEERING CONTROLS-N/A

WORK PRACTICES-Use good housekeeping practices to prevent accumulation of dust and keep airborne dust concentrations at a minimum. Avoid breathing dust or fumes.

HYGIENE PRACTICES-Do not inhale or take internally.