
MATERIAL SAFETY DATA SHEET

Identity: Aluminum Chips

MSDS ID# AC-159

Section I: Manufacturer Name

Powder Technology, Inc.	Emergency Number	952-894-8737
14331 Ewing Avenue S.	Number for Info.	952-894-8737
Burnsville, MN 55306	Date Prepared	9 MAY 2003

Section II: Hazardous Ingredients / Identity Information

Component: Aluminum CAS #: 7429-90-5 Range % by Weight: >99

Section 111: Hazards Identification

Eye Contact: Mechanical irritation only.
Skin Contact: Mechanical irritation only.
Inhalation: Mechanical irritation only.
Ingestion: No significant health hazards known.

Section IV: First Aid Measures

Eyes: Flush eyes with plenty of water, lifting the upper and lower eyelids. Seek medical attention if irritation continues.
Skin: Wash skin with soap and water.
Inhalation: Move exposed person to fresh air. Perform artificial respiration if breathing has stopped. Seek medical attention.
Ingestion: If person is conscious, give large quantities of water to drink.

Section V: Fire Fighting Measures

Extinguishing Media: Dry chemical, dry sand, or sodium chloride. Do not use water.
Unusual Fire And Explosion Hazards: Moderate hazard as fine powder (-325 mesh) when exposed to open flame.
Fire Fighting Equipment: Use protective equipment including positive pressure self-contained breathing device.
Precautions: Keep away from sparks and open flame. Keep container closed.

Section VI: Accidental Release Measures

Never employ water, have sand pails available. Use sand or other inert material to contain spill. Use non-sparking, non-static generating implements. Wet or contaminated material should be placed in vented containers and moved to a remote area. Wear respirators when cleaning spilled material.
Provide adequate ventilation. Collect spilled material in a manner that minimizes dust generation. Keep spill out of drains, sewers and waterways. Observe all local, state and federal regulations when disposing of this substance.

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Section VII: Safe Handling And Storage

Protect against water. Avoid dust generation. 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 VII: Exposure Controls / Personal Protection

Ventilation: Keep dust levels below occupational exposure limits. Use local exhaust ventilation if necessary.

Personal Protective Equipment:

Eyes: Wear safety goggles or glasses with side shields.

Skin: None required. Protective gloves will minimize exposure.

Inhalation: Use local ventilation. Use OSHA approved respirator if required.

Section VII: Chemical and Physical Properties

Appearance and Color: Silvery White Powder, odorless

Flash Point: N/A

Flammability: Non flammable

Auto ignition Temperature: Cloud: 650°C

Layer: 590°C

Melting Point: 660°C

Boiling Point: 2467°C

Solubility In Water: Not soluble

Relative Density (water=1): 2.7

Section VIII: Stability And Reactivity:

Stability: Stable to ignition temperatures of 590°C.

Incompatible Materials: Water, acids, strong alkalies, 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: Reacts with water, acids, and alkalies to form combustible hydrogen gas.

Section IX: Toxicology Information

Aluminum compounds as a class are not considered an industrial risk. The U.S. National Toxicology Program, OSHA, or IARC has not identified this product as a carcinogen.

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Section X: Ecological Information

No data involving ecological effects of this product is on file.

Section XI: Transportation Classification

Not Regulated

Section XII: Hazardous Material Identification System / Regulatory Information

Health: 0 – minimal

Flammability: 0 – minimal

Reactivity: 1 - slight

Personal Protection: E – Safety Glasses, Gloves & Dust Respirator

OCCUPATIONAL EXPOSURE LIMITS:

Aluminum:	ACGIH TLV	10 mg/m ³
	OSHA PEL	5 mg/m ³