

### Safety Data Sheet

**Product No. 29-13, 809 to 809-6, 43-100, 43-112, 809-40 to 809-80, 16071 to 16071-2, 20/10 to 20/15-1, 128-1 to 128-12, 9559, 91570, Aluminum Products (alloys), Mounts, Foil, Tape, Wire, Weighing dishes, Grids, Targets, Pellets**

**Issue Date (03-26-13)**

**Review Date (10-15-18)**

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#### Section 1: Product and Company Identification

**Product Name: Aluminum Products, Foil, Tape, Wire, Weighing dishes, Grids, Targets, Pellets**

Synonym: Al

#### Company Name

**Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477**

**Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**

**International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**

**Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.**

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#### Section 2: Hazard Identification

**Aluminum Powder only**

GHS Pictograms:



Flammable

GHS Categories:

GHS02: Flammable: **Aluminum Powder only.**

**Not considered a hazardous substance in solid form.**

**Product in solid form:**

**Classification according to Regulation (EC) No 1272/2008:** Not classified as hazardous to health or the environment according to the CLP regulation.

**Product in solid form:**

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Not applicable.

**Signal Word: Danger (Aluminum Powder)**

#### Health Effects:

NFPA Hazard Rating Aluminum Metal: Health: ND; Fire: ND; Reactivity: ND

NFPA Hazard Rating Aluminum Powder: Health: ND; Fire: ND; Reactivity: ND

HMIS® Hazard Rating Aluminum Metal: Health: 0; Fire: 0; Reactivity: 0  
 HMIS® Hazard Rating Aluminum Powder: Health: ND; Fire: ND; Reactivity: ND  
 (0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: A chemical safety assessment has not been carried out.

PBT: ND  
 vPvB: ND

**Emergency overview:**

Appearance: Silver solid in various forms.  
 Immediate effects: Irritation from dusts/powder.

**Potential health effects**

Primary Routes of entry: Skin contact. Inhalation and ingestion of dusts/powder/fumes.  
 Signs and Symptoms of Overexposure: Aluminum dust/fines and fumes are a low health risk by inhalation. Nuisance dust.  
 Eyes: May cause eye irritation.  
 Skin: May cause skin irritation in the form of dusts/powder. Generally not a skin irritant in solid form.  
 Ingestion: Dust/fines/powder may cause irritation.  
 Inhalation: Dust/fines/powder may cause respiratory irritation.  
 Chronic Exposure: ND  
 Chemical Listed As Carcinogen or Potential Carcinogen: No  
 See Toxicological Information (Section 11)

**Potential environmental effects**

See Ecological Information (Section 12)

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**Section 3: Composition / Information on Ingredients**

Principle Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Aluminum (7429-90-5) EC-No: 231-072-3	99.99	15	10 TWA 20 STEL	No	No	No
Or Aluminum Alloys	<99	ND	ND	No	No	No

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**Section 4: First Aid Measures**

**If accidental overexposure is suspected**

Eye(s) Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
 Skin Contact: Wash contaminated area with plenty of water. Call a doctor if irritation develops or persists.  
 Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Seek medical treatment in case of complaints.

Ingestion: Generally aluminum has a very low acute systemic toxicity. If symptoms persist consult a doctor.

**Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

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**Section 5: Fire Fighting Measures**

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: 760° C (1400° F)

Fire Extinguishing Media: Special powder for metal fires. Use class D extinguishing agents or dry sand. Do not use water or halogenated extinguishing agents.

Special Fire Fighting Procedures: No special measures required.

Unusual Fire and Explosion Hazards: Dust clouds may be explosive.

Hazardous combustion products: ND

DOT Class: Aluminum metal powder: Flammable.

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**Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: Pick up mechanically. Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

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**Section 7: Handling and Storage**

Precautions to be taken in Handling and Storage: Store away from incompatible materials. Keep container tightly sealed. Store in a cool, dry place in tightly closed container.

Storage temperature: Room temperature.

Storage Pressure: ND

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**Section 8: Exposure Controls / Personal Protection**

**Engineering Controls**

Ventilation required: Local exhaust ventilation and/or general dilution ventilation to meet published exposure limits.

**Personal Protection Equipment**

Respiratory protection: Not normally required. If fumes or dust are generated appropriate respiratory equipment may be required depending on the levels generated.

Protective gloves: Impervious gloves not required but recommended.

Skin/body protection: Protective work clothing.

Eye protection: Safety glasses.

Additional clothing and/or equipment: The usual measures for handling chemicals should be followed.

**Exposure Guidelines**

See Composition/Information on Ingredients (Section 3)

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### **Section 9 Physical and Chemical Properties**

Appearance and Physical State: Silver solid pellets.

Odor (threshold): Odorless

Specific Gravity (H<sub>2</sub>O=1): ND

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): NA

Boiling Point: ND

Melting point: 660.4° C (1221° F)

pH: NA

Solubility in Water: Insoluble

Molecular Weight: 26.98

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### **Section 10: Stability and Reactivity**

Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible materials.

Materials to Avoid (Incompatibility): Acids, acid chlorides, oxidizing agents, halogens.

Hazardous Decomposition Products: Toxic fumes of aluminum oxide, hydrogen when reacted with some acids and caustic solutions.

Hazardous Polymerization: Will not occur.

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### **Section 11: Toxicological Information**

Results of component toxicity test performed:

LD/LC50 values that are relevant for classification: ND

Carcinogenicity: Not classifiable as a human carcinogen.

Human experience: ND

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

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### **Section 12: Ecological Information**

Ecological Information: Do not allow material to be released to the environment without proper governmental permits. Avoid transfer to the environment.

Chemical Fate Information: ND

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### **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: None

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

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### **Section 14: Transportation Information**

**Aluminum Powder only**

US DOT Information: Proper shipping name: Aluminum powder, uncoated

Hazard Class: 4.3  
Packaging group: II  
UN Number: UN1396  
IATA: Proper shipping name: Aluminum powder, uncoated  
Hazard Class: 4.3  
Packing group: II  
UN Number: UN1396  
Marine Pollutant: No  
Canadian TDG: Aluminum powder, uncoated

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### **Section 15: Regulatory Information**

#### **United States Federal Regulations**

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: Substance is not listed.

SARA Title III: Substance is not listed.

RCRA: Not listed.

TSCA: All components are listed on the TSCA public inventory.

CERCLA: Substance is not listed.

#### **State Regulations**

California Proposition 65: Substance is not listed.

#### **International Regulations**

Canada WHMIS: **Aluminum powder**: Class B-6: Flammable solid.

Europe EINECS Numbers: 231-072-3

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### **Section 16: Other Information**

Label Information: Flammable (**Aluminum Powder**)

European Risk and Safety Phrases: ND

European symbols needed: F

Canadian WHMIS Symbols: B-6

#### **Abbreviations used in this document**

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

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### **Disclaimer**

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.