

# MATERIAL SAFETY DATA SHEET A1-1

U.S. ALUMINUM, INC.  
86 Fourth Avenue  
Haskell, NJ 07420

TELEPHONE: 973-839-0380

HMIS RATING:  
HEALTH: 0  
FLAMMABILITY: 4  
REACTIVITY: 1  
PERS. PROTECTION: E

## SECTION 1. MATERIAL IDENTIFICATION

Material Name: Aluminum Flake  
Item Number: 801, 803, 804, 805, 806, 807, 812, 813, 870, 905,  
804NL, 806NL, 807NL, 908S, 913S, 925S, 6807,  
FOILFLAKE, VENUS#s 53,105, 155,195; 804NL, 806NL,  
807NL  
CAS Number: Mixture

## SECTION 2. INGREDIENTS AND EXPOSURE LIMITS

Ingredient	CAS Number	%	ACGIH TLVs	OSHA PELs
			TWA, mg/m <sup>3</sup>	TWA, mg/m <sup>3</sup>
Aluminum	7429-90-5	>97	10	15*; 5**
Fatty Acids	57-11-4	<3	N/A	N/A

\* Total dust; \*\* Respirable fraction

## SECTION 3. PHYSICAL DATA

Appearance and Odor: Silvery-white, hydrocarbon odor.

	<u>Aluminum</u>
Boiling Point:	4473 F (2467 C)
Evaporation Rate:	N/A
Vapor Pressure:	1mm Hg @ 2343 F (1284 C)
Specific Gravity:H2O=1	2.7
Water Solubility (%):	Insoluble
Melting Point:	1220 F (660 C)
Vapor Density (air=1):	N/A
% Volatile by Volume:	N/A
Molecular Weight:	26.98



Distributed By -  
**FREEMAN Mfg. & Supply Co.**  
1101 MOORE ROAD  
AVON, OHIO 44011-1011 (800) 321-8511

## SECTION 4. PHYSICAL DATA

	<u>Aluminum</u>
Flash Point:	N/A
Limits: LEL%:	0.035 oz/ft <sup>3</sup>
UEL%:	N/A
Autoignition temperature:	Cloud = 1202 F (650 C) Layer = 1094 F (590C)
Extinguishing media:	Dry sand, dry inert granular material or powder, or approved dry powder extinguishing agent.

## SECTION 5. REACTIVITY DATA

Material is stable. Hazardous polymerization will not occur.  
Chemical incompatibilities: 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: Aluminum 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: Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention.  
Inhalation: Remove victim to fresh air at once. Give artificial respiration if not breathing. Keep the affected person warm and at rest. Get medical attention as soon as possible.

## SECTION 7. SPILL, LEAK AND DISPOSAL INFORMATION

Spill/leak procedures: Never employ water, have sand pails available. Use non-sparking, non-static generating implements. Sweep gently to avoid dust cloud formation.  
Disposal: Dispose of in accordance with all local, state and federal regulations.

## SECTION 8. SPECIAL PROTECTION INFORMATION

Personal protective equipment:

Goggles: Wear safety glasses with side shields.

Gloves/Clothing: Recommended use.

Respirator: Wear approved dust mask.

Workplace considerations: Eye wash fountain.

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

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## 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.

## SECTION 10. CARCINOGENICITY STATUS

NTP: Not listed. IARC: Not listed. OSHA: Not listed.

## SECTION 11. SUPPLIER NOTIFICATION SECTION 313

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:

<u>CAS#</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>
7429-90-5	Aluminum	> 97%

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

## SECTION 12. DOT SHIPPING INFORMATION

Proper Shipping Name:	Aluminum Powder, Coated
Hazard Classification:	4.1
I.D. Number:	UN 1309
Packing Group:	II
Labels:	Flammable Solid
Markings:	Aluminum Powder Coated, UN 1309

## SECTION 13. EMERGENCY CONTACT

**CHEMTREC:** (800) 424-9300 To be used "ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS".

## DISCLAIMER OF LIABILITY

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