

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 34.00

Revision Date: March 14, 2001

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### Section 1 — Chemical Product and Company Identification

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#### Aluminum

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Aluminum

Synonym: alumina fiber, aluminum powder

CAS#: 7429-90-5

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### Section 3 — Hazards Identification

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Aluminum powder is a flammable solid.

Silvery odorless solid. Available as sheets, strips, foil, shots, wire, powder and granules.

Avoid inhaling dust.

#### FLINN AT-A-GLANCE

Health-0

Flammability-0

Reactivity-2

Exposure-0

Storage-0

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash with soap and water.

Internal: Give large quantities of water. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Aluminum, as dust, is a flammable solid.

Powder Autoignition Temperature: 1400 F

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-0

F-1

R-1

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Remove all ignition sources. Sweep up, place in sealed bag or container and dispose.

Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

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### Section 8 — Exposure Controls, Personal Protection

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Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

### Section 9 — Physical and Chemical Properties

Silvery, odorless solid.  
Specific Gravity: 2.70  
Formula: Al  
Formula Weight: 26.98

Melting Point: 660 C  
Boiling Point: 2327 C

### Section 10 — Stability and Reactivity

Contact with acids liberates flammable hydrogen gas.  
Avoid contact with acids, acid chlorides, oxidizers, halogens.  
Shelf Life: Indefinite.

### Section 11 — Toxicological Information

Acute effects: N.A.  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RAT LD50: N.A.  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

Please consult with state and local regulations.  
Flinn Suggested Disposal Method #26a is one option.

### Section 14 — Transport Information

Shipping Name: Aluminum powder  
Hazard Class: 4.1, Flammable solid  
UN Number: UN1309

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-072-3), RCRA code D001 (dust only).

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

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