

Material Safety Data Sheet

(50361-10)

Section 1: Chemical Product and Company Identification

Product Name: Alumina; aluminum oxide powder, all types and micron sizes	Contact Information: Electron Microscopy Sciences 1560 Industry Road Hatfield, PA 19440 1-215-412-8400 (phone) 1-800-523-5874 (toll-free) 1-215-412-8450 (fax) Order Online: emsdiasum.com
Description: Polishing Powder	
Catalog Number: 50361-10	
CAS#: 1344-28-1	CHEMTREC (24-Hour Emergency Telephone), call: 1-800-424-9300

Section 2: Composition and Information on Ingredients

Name	CAS #	Percent	OSHA PEL	ACGIH TLV
Aluminum oxide	1344-28-1	100	10 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (total) 5 mg/m ³ (respirable)

Section 3: Hazards Identification

Emergency Overview: May create nuisance dust; may aggravate existing dermatitis

Potential Health Effects:

Eye Contact: May cause minor irritation.

Skin Contact: May cause drying of the skin

Ingestion: Not expected to be an ingestion hazard.

Inhalation: Excessive exposure may cause cough, mucous production, and shortness of breath.

Chronic Health Effects/Carcinogenicity:

NTP: Not listed.

OSHA: Not listed

IARC: Not listed

Medical Restrictions: None known

Section 4: First Aid Measures

Eye Contact: Flush with water for 20 to 30 minutes while holding eyelids open. Obtain medical attention if irritation persists.

Skin Contact: Wash with soap and water.

Ingestion: Call a physician

Inhalation: Remove to fresh air. Call a physician if shortness of breath persists for more than 15 minutes.

Section 5: Fire and Explosion Data

Fire fighting:	Not applicable
Extinguishing media:	Not applicable
Hazardous combustion products:	Not applicable
Flash point:	Not applicable
Lower flammable limit:	Not applicable
Upper flammable limit:	Not applicable
Auto-ignition:	Not applicable
Conditions of flammability:	Not applicable
Explosion data:	
Impact sensitivity:	Not applicable
Static discharge:	Not applicable

Section 6: Accidental Release Measures

General:	Avoid generating dust	Small spills:	Sweep or scoop up material
Large spills:	Sweep or scoop up material		

Section 7: Handling and Storage

Handling:	Wear appropriate protection; use adequate ventilation.
Storage:	Keep container closed when not in use. Store in a cool, dry place.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:	See Section 2
Ventilation:	Use adequate ventilation to meet exposure limits as listed in section 2.
Respiratory protection:	NIOSH-approved respirator
Eye protection:	Splash-proof Goggles
Skin protection:	Rubber gloves
Other:	Eye bath and safety shower should be available

Section 9: Physical and Chemical Properties

Physical State:	Solid in the form of a powder	Color:	White
Odor:	Odorless	Specific gravity:	3.98, water=1
Vapor pressure:	1 mm Hg at 3917°F	Vapor density:	Not known
Evaporation rate:	Not applicable	Volatile fraction by wt:	Zero
Boiling point:	5391°F	Melting point:	3722°F
Dynamic viscosity:	Not applicable	Kinematic viscosity:	Not applicable
Solubility in water:	Insoluble	pH:	Not applicable

Section 10: Stability and Reactivity Data

Stability:	Stable	Reactivity:	Reactive	Incompatibility:	Not applicable
Hazardous Polymerization:	Will not occur	Decomposition:	not likely		

Section 11: Toxicological Information

Acute toxicity: **Oral:** Not known **Inhalation:** Not known **Dermal:** Not known

Section 12: Ecological Information

No information available

Section 13: Disposal Considerations

RCRA Hazardous Waste: Not defined as a hazardous waste under RCRA.
Waste Disposal: Ordinary solid waste methods is recommended, if permitted, under federal, state, and local regulations.

Section 14: Transport Information

DOT Hazard Class: Not regulated **Proper Shipping Name:** Not regulated
Identification Number: Not regulated

Section 15: Other Regulatory Information

Federal EPA

SARA Title III: Listed on Section 313.
TSCA Status: All ingredients of this product are on the TSCA inventory.
WHMIS Classification: Not listed

State Right-to-Know

California-65: Not listed
Florida: Not listed
Massachusetts: Not listed
New Jersey: Not listed
Pennsylvania: Aluminum oxide

Section 16: Other Information:

HMIS CODE: Health – 1 Flammability – 0 Reactivity – 0

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Revised: April 29, 2010 **Updated, Verified and Printed:** April 20, 2011