

SECTION 1: IDENTIFICATION

Product Identifier: Bonded Abrasives - Aluminum Oxide, Vitrified Bond 11 Grinding Wheels, Stones, Mounted Points & Segments
Recommended Use: Abrasive Product
Manufacturer: Grier Abrasive Co., Inc.
Address: 123 W. Taft Drive
South Holland, IL 60473, U.S.A.

Telephone #: 708-333-6445
Emergency #: 708-333-6445
Fax #: 708-333-6554
Email: griersales@grierabrasive.com

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification: Not classified as hazardous according to U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Label Elements: N/A

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	C.A.S. #	Weight (%)
Aluminum Oxide	1344-28-1	75 - 95
Clay	1332-58-7	0 - 15
Feldspar	68476-25-5	0 - 15
Zinc Oxide	1314-13-2	0 - 5
Frit	65997-18-4	0 - 15

SECTION 4: FIRST-AID MEASURES

Inhalation: Remove person to fresh air. If irritation persists, get medical attention.
Skin Contact: Wash with soap and water. If irritation persists, get medical attention.
Eye Contact: Flush with plenty of water. If irritation persists, get medical attention.
Ingestion: No need for first aid is anticipated.
Most important symptoms/effects: See Section 11
Indication of any immediate medical attention: N/A

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, Foam, CO2 or other fire fighting agents used for combustible materials.
Specific Hazards: None inherent in this product.
Special Protective Actions for Fire Fighters: No special protective actions are anticipated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Follow normal clean up procedures. Observe precautions from other sections.
Environmental Precautions: N/A
Methods for Clean-up: N/A

SECTION 7: HANDLING AND STORAGE

Precautions for Handling: Avoid breathing of dust created by grinding or sanding. Always check product for damage prior to use since damaged product can break apart during use. Replace if damaged.
Conditions for Safe Storage: Store in normal dry conditions. Follow ANSI guidelines B 7.1.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters / Occupational Exposure Limits:

Ingredient Name	C.A.S. #	OSHA (TWA)	ACGIH (TWA)
Aluminum Oxide	1344-28-1	15 mg/m ³	10 mg/m ³
Clay	1332-58-7		
Feldspar	68476-25-5		
Zinc Oxide	1314-13-2		
Frit	65997-18-4		

Engineering Controls: Maintain sufficient mechanical or natural ventilation to minimize airborne dust.
Recommend use of local exhaust ventilation when grinding.
Follow ANSI guidelines B 7.1.

Personal Protective Equipment:

Skin/hand: Wear gloves suitable for grinding operation.

Respiratory: If needed, OSHA Approved respiratory protection for nuisance dust.

Eye/Face: Safety glasses or face shield should be worn during all grinding activities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid	Flammable Limit (LEL): N/A
Appearance: Abrasive Product (various colors)	Flammable Limit (UEL): N/A
Odor: none	Vapor Pressure: N/A
Odor Threshold: N/A	Vapor Density: N/A
pH: N/A	Density: N/A
Melting Point: N/A	Specific Gravity: 1.6 - 2.4
Boiling Point: N/A	Solubility in Water: N/A
Flash Point: N/A	Solubility (non-water): N/A
Evaporation Rate: N/A	Partition Coefficient: n-octanol/water: N/A
Flammability (solid, gas): N/A	Auto-ignition Temperature: N/A
	Decomposition Temperature: N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Non-reactive under normal use.	Conditions to Avoid: None known
Chemical Stability: Stable	Incompatible Materials: None known
Possibility of Hazardous Reactions: None known	Hazardous Decomposition Products: None known

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: ACUTE: Dust from grinding may irritate respiratory tract at high concentrations. CHRONIC: Dust from grinding may affect breathing capacity.
Skin Contact: ACUTE: Some may experience skin irritation from dust when grinding.
Eye Contact: ACUTE: Dust from grinding may be mechanical irritant to eyes.
Ingestion: No known adverse effects, but ingestion not recommended.
Medical Conditions Aggravated by Exposure: Bronchial and/or chronic lung disease

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available
Chemical Fate Information: No data available
Persistence and Degradability: N/A
Bioaccumulative potential: No data available
Mobility in Soil: No data available
Other adverse effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Method: Dispose in accordance with local, regional, national, international regulations.

SECTION 14: TRANSPORT INFORMATION

Not Regulated per U.S. DOT, IATA or IMO

SECTION 15: REGULATORY INFORMATION

EPA TSCA Inventory: Defined as "article" by TSCA regulations, so exempt from TSCA Inventory requirements.

SARA Title III: This product is not subject to SARA 313 reporting.

SARA 311/312: No known hazard categories to report.

SECTION 16: OTHER INFORMATION

DISCLAIMER:

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.

This SDS is based on information that is believed to be reliable, but may be subject to change.

Grier Abrasive Co., Inc. (Grier) makes no warranties, expressed or implied, including as to merchantability or fitness for a particular purpose or course of performance or usage of trade.

This document is intended as a guide for the safe handling, storage and use of this material under normal conditions of use. Grier assumes no liability to any user thereof.

NFPA Ratings: Health: 1 Fire: 0 Instability: 0 Special: None

HMIS Ratings: Health: 1 Fire: 0 Physical: 0 Personal Protection: X (see PPE Sec. 8)

Abbreviations:

EPA: Environmental Protection Agency

NFPA: National Fire Protection Agency

TSCA: Toxic Substances Control Act

N/A: Not Applicable

ACGIH: American Conference of Governmental Industrial Hygienists

ANSI: American National Standards Institute

HMIS: Hazardous Material Identification System

OSHA: Occupational Health and Safety Administration (U.S.)

SARA: Superfund Amendments and Reauthorization Act