



MATERIAL SAFETY DATA SHEET

Manufacturer's Name: **Bates Abrasives Inc.**
Address: **872 North Hill Blvd.
Burlington, WA 98233**

Emergency Phone: (800) 231-5725
Revised Date: 1/31/2003

Trade Name, Common Name: **Resinoid Bonded Grinding Wheels**

SECTION I: COMPOSITION

<u>Chemical Name</u>	<u>Common Name:</u>	<u>Cas #</u>	<u>OSHA PEL</u>	<u>TLV</u>
Alpha-Alumina	Alumdum, Seeded Gel	1344-28-1	15mg/m ³	10mg/m ³
Silicon Carbide	Crystolon	409-21-2	15mg/m ³	10mg/m ³
Zirconia Alumina	NZ, ZF, NT, NA, 7NA	1314-23-4	5mg/m	5mg/cum
Fluorides (as F)	Fluorine	@ N/A	2.5mg/m ³	2.5mg/m ³
Calcium Oxide	Lime	1305-78-8	5mg/m ³	2mg/m ³ ; 9596
Glass, Fibrous or Dust	Fiberglass		15mg/m ³ ,Dust	10mg/m ³ ,Dust; 9596
Silicon Dioxide	Crystalline Silica	7631-86-9		0.1mg/m ³ ,Rdust;9596

Explanation of Carcinogenicity: Crystalline Silica is IARC-2A;NTP-A
Listed as Carcinogen by - ACGIH, IARC, NTP, Cal. Prop. 65

SECTION II: HAZARD IDENTIFICATION

<u>Primary Route(s) of Entry (during grinding)</u>	<u>Acute and Chronic Health Effects and Effects of Overexposure</u>	<u>First Aid and Medical Info.</u>
Inhalation	ACUTE: coughing, shortness of breath. CHRONIC: may affect breathing capacity.	Move to fresh air, Artificial Respiration as needed. Obtain medical assistance if required.
Ingestion	No known adverse effects, but ingestion not recommended.	Obtain medical assistance.
Skin - Contact & Absorption	Excessive contact with dust may cause irritation.	Remove contaminated clothing, Wash with soap & water. Get medical attention if irritation persists.
Eye	Dust generated during grinding may irritate eyes.	Irrigate with large amounts of water. Obtain first aid and medical assistance if required.
Other Potential Health Risks	Grinding may create elevated sound levels which may affect hearing. Dust may aggravate preexisting respiratory conditions. May cause diminished lung capacity.	Use hearing protection, limit exposure. Locate to fresh air. Give oxygen or artificial respiration if needed. Medical attention if required.

SECTION III: PHYSICAL DATA

Appearance & Odor: Solid Article, Possible nuisance odor Boiling Point: N/A Melting Point: N/A
Vapor Pressure: N/A % Volatile by Volume: 0% Vapor Density: N/A Evaporation Rate: N/A
Specific Gravity: 2-4 Solubility in Water: SLIGHT

SECTION IV: FIRE & EXPLOSION HAZARD DATA

Flash Point: None
Extinguishing Media: Use any media that is appropriate for the surrounding fire.
Fire fighters should wear goggles and self-contained breathing apparatus to avoid inhalation of smoke or vapors.
Unusual Fire / Explosion Hazard: None from this product. Consideration should be given to potential hazards from materials
being processed. Many materials create flammable/explosive dust when ground.

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Phone (360) 757-4010
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SECTION II. REACTIVITY DATA

Stability Indicator: Yes

Stability Condition to Avoid: This is a stable material. Avoid overspeed and unsafe use conditions.

Materials to Avoid: None Specified by Manufacturer.

Hazardous Decomposition Products: In Use, Dust and Decomposing Odors are Generated. Coolants or other liquids may produce other decomposition products.

Hazardous Polymerization Indicator: None

SECTION III. CONTROL MEASURES

Respiratory Protection Recommended: Use NIOSH /MSHA approved dust respirators, see OSHA 29CFR 1910.134.

Ventilation: Local ventilation in dust removal at the worksite; mechanical (general) ventilation to maintain TLV / PEL.

Protective Gloves: Anti-vibration gloves recommended depending upon application.

Eye Protection: Protective glasses &/or full face shield.

Other Protective Equipment: Hearing Protection, Protective clothing, Limit exposure time and Provide a local eye wash station.

Work Hygienic Practices: Wash hands. Separate work clothes from street clothes. Launder work clothes before reuse. Keep food away from the work area.

SECTION IV. SAFE HANDLING, DISPOSAL & USE

Spill Release Procedures: Use normal cleanup procedures.

Neutralizing Agent: Not applicable.

Waste Disposal Methods: Dispose of in accordance with federal, state and local regulations.

Handling and storage Precautions: Store in a cool, well - ventilated place. Keep enclosed when not in use.

Other Precautions: Ensure that grinding wheels are used at proper RPM and with adequate guarding.

Refer to A.N.S.I. B7.1.

Other Precautions: Visually inspect all wheels before mounting for possible damage. Do not use a wheel that has been dropped. Do not operate above maximum operating speed. Always use proper machine or tool guarding. Refer to ANSI B7.1 for the "Safety Requirements for the Use, Care and Protection of Abrasive Wheels."

The information and recommendations set forth are taken from sources believed to be accurate. Bates Abrasives, Inc. makes no warranty with respect to the accuracy of this information or the suitability of these recommendations, assumes no liability to any user thereof. It is the responsibility of the user to investigate and understand pertinent sources of information to comply with all laws and procedures applicable to the safe use and handling of the product and to determine the suitability of the product for its intended use.