

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Zirconia Oxide (Belts, Discs)

AM0314PB, AM0342PB, AM0343PB, AM0344PB, AM0341-AM0344, AM0357, AM0358, AM2080, AM2081, AM0544-AM0548

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
1344-28-1	30-40	Aluminum Oxide	15 (dust)	10 (dust)
7440-67-7	20-30	Zirconium Oxide	5 (as Zr)	5 (as Zr)
Not estab.	20-30	Cloth or Paper Backing	N/A	N/A
Binder System (mixture below)				
9003-35-4	05-15	Phenol Formaldehyde Resin	N/A	N/A
Not estab.	05-15	Animal glue bond	N/A	N/A
9011-05-6	05-15	Cured Urea Formaldehyde	N/A	N/A

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: Irritation may occur to some users. May cause abrasions.

INHALATION: Dust may be slightly irritating to the respiratory tract.

INGESTION: No known adverse effect, but ingestion is not recommended.

CHRONIC OVEREXPOSURE: May affect breathing capacity.

ACUTE OVEREXPOSURE: Shortness of breath, coughing. Possibility of elevated sound levels during normal use when grinding.

MEDICAL CONDITIONS AGGRAVATED: Persons with respiratory or dermatological disorders may be at increased risk from exposure.

CARCINOGENICITY: None.

4. FIRST AID MEASURES

EYES: Flush with large amounts of water. Obtain first aid/medical assistance if needed.

INHALATION: Removed from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

SKIN: Wash skin with plenty of soap and water. Obtain medical assistance if needed.

INGESTION: Obtain medical assistance if needed.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Non-flammable

Flash Point: None

Flammable Limits: (% by Volume in Air): Lower: None Upper: None

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: N/A

EXTINGUISHING MEDIA: N/A

FIREFIGHTING INSTRUCTIONS: Backing and resin binder will burn or decompose. Use respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: No special procedures.

7. HANDLING AND STORAGE

HANDLING: Handle with adequate ventilation for nuisance dust.

STORAGE: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION: local or mechanical recommended.

ENGINEERING CONTROLS: N/A

RESPIRATORY PROTECTION: Avoid breathing dust from material being abraded. Wear a particulate respirator where dust is generated.

SKIN AND HAND PROTECTION: Rubber or leather gloves recommended to minimize skin exposure to abraded material.

EYE AND FACE PROTECTION: Always wear safety glasses or some type of eye protection when using grinding. See OSHA 29 CFR 1910.133 (Face & Eye Protection).

OTHER PROTECTIVE EQUIPMENT: Hearing protection may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Cloth coated with abrasive material

BOILING POINT: N/A

FREEZE-MELT POINT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: N/A

SPECIFIC GRAVITY: N/A

pH: N/A

ODOR: None

PERCENT VOLATILES: N/A

EVAPORATION RATE: N/A

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

INCOMPATIBILITY: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: In use, dust and decomposing resin system fumes are generated. In most cases, the material removed from the work piece will be significantly greater than the coated abrasive product components.

HAZARDOUS POLYMERIZATION: None.

11. TOXICOLOGICAL INFORMATION

None Reported.

12. ECOLOGICAL INFORMATION

None available.

13. DISPOSAL CONSIDERATION

Dispose in accordance with all applicable federal, state and local regulations.

14. TRANSPORTATION INFORMATION

USA DOT: Not regulated

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA STATUS: On toxic Substance Control Inventory

CERCLA Reportable Quantity: None

RCRA Status: Not regulated

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: Acute, Chronic

Section 313 Toxic Chemicals: Aluminum Oxide (fibrous forms only)

16. OTHER INFORMATION

SUPPLEMENTAL INFORMATION

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

Date Prepared: September 10, 2005

Prepared by: Scot Burns