

ACME

HOLDING COMPANY
 24200 Marmon Avenue
 Warren, MI 48089 USA
 (586) 759-3332 Fax (586) 759-3334

MATERIAL SAFETY DATA SHEET

1.0 Product and Company Identification

Identity	Resin (Phenolic) bonded Grinding Wheels, Stones and Rubbing Stones		
Manufacturer	Acme Holding Company 24200 Marmon Avenue Warren, MI 48089 USA	Phone	(586) 759-3332 (8:00am – 5:00pm EST)
		Fax	(586) 759-3334
		Website	www.acmeabrasive.com
Trade Names	Acme Abrasive, Hanson	Email	info@acmeabrasive.com
Date Prepared	June 6, 1997	Revised Date	August 21, 2006

2.0 Hazards Identification

Inhalation Acute Exposure Effects

Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

Inhalation Chronic Exposure Effects

May affect breathing capacity.

For products containing phenol/formaldehyde resin, dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction.

For products containing inorganic fluorides, excessive exposure to inorganic fluorides has been shown to increase bone density.

Eye Contact Acute Exposure Effects

Dust may irritate eyes.

Skin Contact Acute Exposure Effects

Some individuals may experience skin irritation from dust.

Ingestion Acute Exposure Effects

No known adverse effects, but ingestion not recommended.

3.0 Composition/Information on Ingredients
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Component	CAS#	Max% by Weight
Aluminum Oxide, Non-fibrous	1344-28-1	90%
Zirconium Oxide	1314-23-4	75%
Silicon Carbide	409-21-2	90%
Cured Phenolformaldehyde Resin	9003-35-4	25%
Cryolite	15096-52-3	20%
Iron Pyrite	1309-36-0	20%
Lime	1305-78-8	5%
Wollastonite	13983-17-0	20%
Potassium Fluoborate	14075-53-7	20%
Calcium Carbonate	1317-65-3	20%
Kyanite	1302-76-7	20%
Fiberglass	65997-17-3	10%

4.0 First Aid Measures

Inhalation

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

Skin Contact

Wash affected areas with soap and water. Obtain medical assistance.

Eye Contact

Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

Ingestion

No known effects but ingestion is not recommended.

5.0 Fire Fighting Measures

Flash Point

None

Flammable Limits

None

Fire Fighting Procedures

Not Applicable

Hazardous Products/Combustion

None

Extinguishing Media

Any media appropriate for the surrounding fire.

Special Fire Fighting Procedures

Not Applicable

Unusual Fire and Explosion Hazards

None from this product. Consideration must be given to the potential fire/explosion hazards from the material being processed. Many materials create flammable or explosive dusts when ground.

6.0 Accidental Release Measures

Clean Up

Follow normal clean up procedures.

Disposal

Dispose of in accordance with local, state and federal regulations.

7.0 Handling and Storage

Handle and Store in accordance with ANSI B7.1 *Safety Requirements for the Use, Care and Protection of Abrasive Wheels* with particular reference to Section 2.

8.0 Exposure Controls/Personal Protection

Ventilation Protection

Recommend using local exhaust ventilation when airborne contaminant concentration exceeds the TLV. See ANSI Z43.1

Respiratory Protection

MSHA and NIOSHA approved dust respirator when airborne contaminant levels exceed the TLV as needed. See OSHA 29CFR 1910.134

Eye Protection

Goggles, face shield or safety glasses with side shields are required. See OSHA 29CFR 1910.133

Hearing Protection

Use of this product may create elevated sound levels. Hearing protection should be worn where required. See OSHA 29CFR 1910.95 and other applicable regulations

Other Precautions

Refer to ANSI B7.1

9.0 Physical and Chemical Properties

Solid, various Grey and Brown colors, Odorless

10.0 Stability and Reactivity

Incompatibilities

Avoid acids of all types with a pH < 4.0 and bases of all types with a pH > 9.0.

Decomposition

In use, dust and odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components. Coolants, when present, may produce other decomposition products.

For products containing phenol and formaldehyde resin, thermal decomposition may produce trace amounts of phenol and formaldehyde. For products containing inorganic fluorides, thermal decomposition may produce trace amounts of fluorides.

11.0 Toxicological Information

Carcinogenicity

For wheels containing fiberglass, fiber diameters are greater than 10µm, therefore considered non-respirable.

12.0 Ecological Information

Chemical Fate

Resin bonded materials demonstrate similar degradation rates as phenolic plastics.

13.0 Disposal Considerations

Recycle if possible.

Disposal should be in accordance with applicable regional, national, provincial and local laws and regulations.

14.0 Transport Information

DOT

Non-Regulated, Non-Hazardous

Sea & Air Transport

Not Available, Non-Hazardous

15.0 Regulatory Information

Exposure Limits/Regulatory Information			
Substance Description	Units	OSHA PEL	ACGIH TLV
Aluminum Oxide, Non-fibrous	mg/m ³	15.0	10.0
Zirconium Oxide	mg/m ³	5.0	5.0
Silicon Carbide	mg/m ³	15.0	10.0
Cured Phenolformaldehyde Resin	mg/m ³	5.0	5.0
Cryolite	mg/m ³	2.5	2.5
Iron Pyrite	mg/m ³	N/A	N/A
Calcium Oxide	mg/m ³	5.0	2.0
Wollastonite	mg/m ³	15.0	10.0
Potassium Fluoborate	mg/m ³	2.5	2.5
Calcium Carbonate	mg/m ³	5.0	2.0
Kyanite	mg/m ³	5.0	10.0
Fiberglass	mg/m ³	10.0	5.0

This product is not subject to SARA 313 reporting.

16.0 Other Information

All information and recommendations appearing on the Safety Data sheet are based upon data believed to be reliable and accurate. The company makes no warranty, express or otherwise, with respect to the accuracy of the information or the suitability of the recommendations herein, and assumes no liability to any user thereof. It is the users responsibility to determine the suitability for their own uses and to comply with all applicable regulations. No guarantee, either expressed or implied is made by Acme Holding Company as to the safety and toxicity of the product, nor does Acme Holding Company assume any liability arising from the use of this product.