MATERIAL SAFETY DATA SHEET

VITRIFIED BONDED ABRASIVES

Section I - Company Information

Manufacturers Name: Sparky Abrasives
Emergency Telephone Number: +800-3284560

Address: Willmar, MN 55355

Date Prepared: January 1, 2010

Section II - Composition of Components

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>Common Name</th>
<th>OSHA PEL</th>
<th>ACHIH TLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>Alumina</td>
<td>15 MG/M3</td>
<td>10 MG/M3</td>
</tr>
<tr>
<td>A,94A, PA, 83A, WA</td>
<td></td>
<td></td>
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<tr>
<td>AZ, RA, 91A,32A</td>
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</tbody>
</table>

| Silicon Carbide      | Carbide     | 10 MG/M3 | 10 MG/M3  |
| 72C, 74C, C, GC      |             |          |           |

Section III - Physical/Chemical Characteristics

Boiling Point: N/A  Solubility in Water: N/A
Vapor Pressure (mm Hg.): N/A  Specific Gravity (H2O=1): 1,7-2,5
Vapor Density (AIR=1): N/A  Melting Point: N/A
Evaporation Rate: (Butyl Acetate=1): N/A
Appearance and Odor: Solid, may give off slight odor in use
Section IV - Fire and Explosion Hazard Data

Flash Point: N/A
Flammable Limits: N/A
Extinguishing Media: Water
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None, does not burn or explode

Section V - Reactivity Data

Stability: Stable
Incompatibility (Materials To Avoid): Avoid strong acids of all types with pH<4.0
Hazardous Polymerization: Will not occur
Hazardous Byproducts: Grinding dust may produce respiratory hazard

Section VI – Health Hazard Data

Routes of Entry: Inhalation, Skin
Health Hazards (Acute and Chronic): May affect breathing capacity
Signs and Symptoms of Exposure: Inhalation, coughing, shortness of breath
                                Eye and skin irritation
Emergency and First Aid Procedures:
- Inhalation overexposure: remove to fresh air and contact physician if needed
- Skin contact: wash affected areas with soap and water, obtain medical assistance if needed
- Eye contact: wash with water, obtain medical assistance if needed
- Ingestion: no know adverse effects, but advisable to obtain medical assistance
Section VIII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:
- Ventilate area and collect material in safe manner.

Water Disposal Method:
- Standard landfill methods with federal, state and local laws.

Precautions to be Taken in Handling and Storing:
- Avoid mechanic damage, handle and store in accordance with ANSI B 7.1
- Inspect wheel prior to mounting.
- Make sure machine speed is compatible to speed of wheel

Other precautions:
- Follow ANSI Safety Code B 7.1 for the use, care and protection of abrasive wheels

Section VIII - Control Measures

Respiratory Protection:
- Approved dust respirators required, see OSHA 29 CFR 1910-134

Ventilation:  Local exhaust required
  Mechanical (general) recommended
  Other: N/A

Protective Gloves:  as desired by operator

Eye Protection:  Required, see OSHA CFR 1910-133

Other Protective Clothing or Equipment:
- If applicable (apron)
- Hearing Protection: Where required, see OSHA 29 CFR 1910-134
- Face shield
- Machine guards