SAFETY DATA SHEET

Date: June 2015

Section #1: PRODUCT AND COMPANY IDENTIFICATION

Lapmaster Wolters, LLC
501 W. Algonquin Road
Mt. Prospect, IL 60056

Telephone: (224) 659-7101 (Office Hours 8:00 a.m. to 5:30 p.m. CST)
24-Hour Emergency Number: Chemtrec – 1-800-424-9300

Product Identification: Rubber Bonded Abrasive Wheels
Product Name: Abrasive Cut-Off Wheels METS-ACUT-XXX-XXXX

SECTION 2 - Hazard Information

2.1 Precautionary statements

Use with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use. Observe recommended operating speeds.

2.2 Description of Hazards

Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes. Using wheels in excess of recommended operating speeds may result in serious injury due to wheel breakage.

SECTION 3 - Composition

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Formula</th>
<th>% Weight</th>
<th>OSHA Regulated</th>
<th>Cas #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>Al₂O₃</td>
<td>0 - 95</td>
<td>N/A</td>
<td>1344-28-1</td>
</tr>
<tr>
<td>Silicon Carbide</td>
<td>SiC</td>
<td>0 - 95</td>
<td>N/A</td>
<td>409-21-2</td>
</tr>
<tr>
<td>Cured Rubber Compounds</td>
<td>N/A</td>
<td>0 - 20</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Sulfur</td>
<td>S₉</td>
<td>1 - 10</td>
<td>N/A</td>
<td>7704-34-9</td>
</tr>
<tr>
<td>Cured Phenolic Resin</td>
<td>N/A</td>
<td>0 - 10</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>CaCO₃</td>
<td>0 - 5</td>
<td>N/A</td>
<td>1317-65-3</td>
</tr>
<tr>
<td>Calcium Oxide</td>
<td>CaO</td>
<td>0 - 5</td>
<td>N/A</td>
<td>1305-78-8</td>
</tr>
<tr>
<td>Potassium Aluminum Fluoride</td>
<td>KAlF₄</td>
<td>0 - 5</td>
<td>N/A</td>
<td>14484-89-6</td>
</tr>
<tr>
<td>Potassium Fluoroborate</td>
<td>KBF₄</td>
<td>0 - 5</td>
<td>N/A</td>
<td>14075-53-7</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>Fe₂O₃</td>
<td>0 - 5</td>
<td>N/A</td>
<td>1309-37-1</td>
</tr>
<tr>
<td>Kaolin</td>
<td>Al₂Si₂O₅(OH)₃</td>
<td>0 - 5</td>
<td>Yes</td>
<td>1322-58-7</td>
</tr>
<tr>
<td>Magnesium Stearate</td>
<td>Mg(C₁₈H₃₅O₂)₂</td>
<td>0 - 3</td>
<td>N/A</td>
<td>557-04-0</td>
</tr>
</tbody>
</table>

SECTION 4 - First Aid

4.1 First Aid for exposure

Remove to fresh air, wash eyes with water, wash skin with soap and water, obtain first aid or medical assistance as deemed necessary.

4.2 Signs and Symptoms of Exposure

Could cause coughing and shortness of breath due to dust. May affect breathing, irritate eyes, and cause skin irritation. Pre-existing respiratory disease may be aggravated.
SECTION 5 - Fire Fighting Measures

5.1 Means Of Extinction: Use any media that is appropriate for the surrounding fire.

5.2 Unusual Fire or Explosion Hazards: This product is not combustible. However, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when machined or ground.

5.3 Special Fire Fighting Procedures: None needed.

SECTION 6 - Accidental Release Measures

Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state and federal regulations.

SECTION 7 - Storage, Handling and Use Procedures

7.1 Handling: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking. Refer to ANSI B7.1 Safety Code for additional information. Consider potential exposure to components of the base materials or coating being ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

7.2 Storage: Store in accordance with ANSI B7.1 Safety Code. Protect abrasive wheels from damage.

SECTION 8 - Personal Protective Control Measures

8.1 Exposure limits

<table>
<thead>
<tr>
<th>Chemical</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Silicon Carbide</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Cured Phenolic Resin</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Cured Rubber Compounds</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Sulfur</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>15 mg/m³</td>
<td>None established</td>
</tr>
<tr>
<td>Calcium Oxide</td>
<td>5 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Potassium Aluminum Fluoride</td>
<td>2.5 mg/m³</td>
<td>2.5 mg/m³</td>
</tr>
<tr>
<td>Potassium Fluoroborate (as fluorides)</td>
<td>2.5 mg/m³</td>
<td>2.5 mg/m³</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Kaolin</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Magnesium Stearate</td>
<td>None established</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Note: Consider also compounds of base materials and coatings being ground.

8.2 Personal protection requirements and referrals

Respiratory: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive.

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Protective Gloves: Cloth or leather gloves recommended.

Eye Protection: Safety goggles or face shield over safety glasses with side shields.

Hearing Protection: Elevated sound levels may result during operation. Use ear protection as necessary.

Hygienic Practices: Follow good general industrial safety practices during use.
SECTION 9 - Physical/Chemical Characteristics

Boiling Point: Not applicable
Specific Gravity: Not applicable
Vapor Pressure: (mm Hg) Not applicable
Melting Point: Not applicable
Vapor Density: (air = 1) Not applicable
Evaporation Rate: (Butyl Acetate=1) Not applicable
Solubility in Water: Insoluble
Appearance: Black, green or reddish colored rigid wheel
Lower And Upper Explosion Limits: Not applicable
Odor: None
Flash Point: Non-combustible

SECTION 10 - Stability and Reactivity Data

Stability: Stable
Incompatibility: None known.

Hazardous Decomposition Products: Dust from grinding could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being ground or coatings applied to the base material.

Hazardous Polymerization: Will not occur.

SECTION 11 - Toxicological Data

11.1 Component information

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Short term effects</th>
<th>Long term effects</th>
<th>Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>Oral rat LD50 &gt; 5,000 mg/kg</td>
<td>No data available</td>
<td>Not carcinogenic</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>Oral rat LD50 = 6,450 mg/kg</td>
<td>No data available</td>
<td>Not carcinogenic</td>
</tr>
<tr>
<td>Potassium Aluminum Fluoride</td>
<td>No data available</td>
<td>No data available</td>
<td>3 as listed by IARC</td>
</tr>
</tbody>
</table>

11.2 Route(s) of Entry and symptoms of exposure

See section 4.2

SECTION 12 - Ecological Information

No ecological data is available for this product. No hazards to the environment are expected from this product. However, consideration must be given to potential environment effects of the base material being processed.

SECTION 13 - Disposal Considerations

Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

SECTION 14 - Transport Information

DOT Hazardous Materials Description: Not regulated
Proper Shipping Name: Not regulated
UN Number: None
Hazard Class/Packing Group: None
Labels Required: None
SECTION 15 - Regulatory Information

SARA Section 311/312 Hazard Categories: Not Applicable (manufactured articles)

SARA Section 313: Some products contain the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting): None

California Proposition 65: WARNING! You create dust when you cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal. This dust often contains chemicals known to cause cancer, birth defects or other reproductive harm.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations. This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

SECTION 16 - Other Information

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