FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
CALL (CHEMTREC) 800-424-9300. THIS MSDS COMPLIES WITH 29 CFR 1919.1200
(THE HAZARD COMMUNICATION STANDARD)

Date of Preparation: May 28, 1996

Section 1 - Chemical Product and Company Identification

Product / Chemical Name:
Diamond Blades (Metal Bonded & Electroplated)
and Grinding Wheels

Distributor Name: Alpha Professional Tools®
Address: 103 Bauer Drive, Oakland, NJ 07436
Emergency Tel. No.: 800-648-7229

Product Type: N/A
Formula: N/A

Section 2 - Hazardous Ingredients

<table>
<thead>
<tr>
<th>Chemical Name &amp; Common Names</th>
<th>CAS Numbers</th>
<th>Exposure Limits in Air</th>
<th>Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>OSHA PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MG / M³</td>
<td>MG / M³</td>
</tr>
<tr>
<td>Cobalt</td>
<td>7440-48-4</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>NAIF</td>
<td>NAIF</td>
</tr>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>1.0</td>
<td>1.0</td>
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<tr>
<td>Iron</td>
<td>7439-86-6</td>
<td>15.0</td>
<td>NAIF</td>
</tr>
<tr>
<td>Tungsten Carbide</td>
<td>7440-37-7</td>
<td>5.0</td>
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<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>10.0</td>
<td>15.0</td>
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<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>Chromium (hardened)</td>
<td>7440-47-3</td>
<td>0.5</td>
<td>1.0</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>NAIF</td>
<td>NAIF</td>
<td>NAIF</td>
</tr>
</tbody>
</table>


Section 3 - Physical and Chemical Properties

Vapor Density (AIR=1): N/A
Specific Gravity: 7 - 14
Solubility in Water: Insoluble
Vapor Pressure, mmHg at 20°C: N/A
Appearance and Odor: Solid metallic appearance, Odorless. (Resin portion may give off odor in use)
Percent Colatile by Vol: 0
Solubility in other Solvent: Soluble in strong mineral acids

Melting Point or Range: 630°C - 1200°C
Boiling Point or Range: N/A
Evaporation Rate (Butyl Acetate=1): N/A
Solubility in Alcohol: Insoluble
Melting Point of Resin: N/A
Specific Gravity of Resin: 0.7 - 1.2

*Diamond Electroplated Blades have Ni-plated diamond grains on steel center.

Section 4 - Fire and Explosion

Flash Point, °F: N/A
Auto Ignition Temperature, °F: N/A
Flammable Limits in Air, Vol%: N/A
Fire Extinguishing Materials: N/A
Special Fire Fighting Procedures: N/A
Unusual Fire & Explosion Hazards: N/A
Section 5 - Health Hazard Information

Symptoms of Overexposure for each Potential Route of Exposure.

**Inhaled:** During sawing or grinding, dust can irritate nose or throat, which may cause coughing, wheezing or shortness of breath.

**Contact with skin or eyes:** During sawing or grinding, some may experience skin or eye irritation from dust.

**Contact through skin:** During sawing or grinding, some may experience skin irritation from dust.

**Health effects or risks from exposure:** Acute: (During sawing or grinding) coughing, wheezing or shortness of breath. Chronic: (During sawing or grinding) may affect breathing capacity.

First Aid (Emergency Procedures)

**Eye contact:** If irritation occurs, flush with copious amount of water. If irritation persists, seek medical attention.

**Skin Contact:** If irritation or rash occurs, wash affected area thoroughly with soap and water. Seek medical attention.

**Inhaled:** If symptoms develop (coughing, wheezing, shortness of breath, etc.) remove from the exposure and seek medical attention.

**Suspected cancer agent?** Yes: This product’s ingredients are listed and regulated as carcinogen by OSHA 29 CFR 1919.1200, Hazard Communication Standard.

**Medical conditions aggravated by exposure:** NAI

Section 6 - Corrosivity and Reactivity Data

**Stability:** Stable

**Incompatibility (Materials to avoid):** NAIF

**Hazardous decomposition products (Including combustion products):** NAIF

**Hazardous polymerization:** Will not occur

Section 7 - Spill, Leak, and Disposal Procedures

**Spill or leak response procedures (Including employee protection measures):** Solid metal, N/A

**Preparing wastes for disposal (Container type, neutralization, etc.):** Standard methods consistent with applicable federal, state and local regulations.

Section 8 - Special Handling Information

**Ventilation and Engineering Controls:** During sawing or grinding, handle with adequate ventilation for nuisance dust. See OSHA 29 CFR 1910.94 (Ventilation) and CFR 1910.1000 (Air contaminants). See ANSI standard B7-1, Section 2.

**Respiratory Protection:** During sawing or grinding, use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV.

**Eye Protection:** Recommended (during sawing or grinding)

**Gloves:** Recommended (during sawing or grinding)

**Other Clothing and Equipment:** During sawing or grinding, use other protective equipment such as flame retardent clothing if applicable. See OSHA 29 CFR 1910.215 (Hearing Protection).

**Work Practices and Hygienic Practices:** During sawing or grinding, use safety guards. Make sure all the guards are in place.

**Other Handling and Storage Equipments:** See ANSI standard B7.1.

**Protective Measures During Maintenance of Contaminated Equipment:** NAIF

Note: N/A = Not Applicable  NAIF = No Applicable Information Found