




## SAFETY DATA SHEET

### Section 1 Identification

Name: <b>BA, BB, BC, BD, BG and all other type B bonds</b>	Common Name: <b>Resin Bond Diamond or Cubic Boron Nitride</b>
Manufacturer: <b>Continental Diamond Tool Corp</b>	Address: <b>1221 Hartzell St.</b>
City: <b>New Haven</b>	State: <b>Indiana</b>
Postal Code: <b>46774</b>	Contact: <b>Raymond Viggiano</b>
Emergency Phone: <b>260-493-1294</b> Phone: <b>260-493-1294</b>	Recommended Use: <b>Super Abrasive Tooling</b>

### Section 2: Hazard Identification

Hazard Classification: <b>Irritant</b>
Signal Word: <b>Warning</b>
Hazard Statement: <b>Grinding dust may cause respiratory, skin and/or eye irritation.</b>
Pictograms: 
Precautionary Statement: <b>Handle with adequate ventilation. See OSHA 29 CFR 1910.92 (ventilation) and 29 CFR 1910.1000 (air contaminants). Use with approved dust respirator (see OSHA 29 CFR 1910.134)</b>
Hazards not otherwise classified: <b>N/A</b>
Percentage of ingredients with unknown toxicity: <b>none</b>

### Section 3: Composition/Information on Ingredients

Chemical Name	Common Name / synonym	CAS	REG (Y or N)
Copper	Copper	7440-50-8	Y
Tin	Tin	7440-31-5	Y
Graphite	Graphite	7882-42-5	Y
Calcium Oxide	Lime	1305-78-8	Y
Silicon Carbide	Crystolon	409-21-2	Y
Nickel	Nickel	7440-02-0	Y
Phosphorus	Phosphorus	7723-14-0	Y
Alpha-Alumina	Alundum	1344-28-1	Y
Manganese	Manganese	7439-96-5	Y
Molybdenum	Molybdenum	7439-98-7	Y
Iron Oxide Fumes	Iron Oxide	1309-37-1	Y
Silicon Powder	Silicon Powder	7440-21-3	Y
Aluminum Powder	Aluminum Powder	7429-80-5	Y
Note: listed Chemicals may be of the bond system in the usable part of wheel.			

### Section 4: First Aid Measures

Route of Exposure	Acute Effects	Chronic Effects	Recommended Medical Attention
Inhalation(during grinding)	Coughing, shortness of breath	May affect breathing capacity	Remove to fresh air, artificial respiration as needed, obtain medical assistance
Eyes(during grinding)	Dusts may irritate eyes		Wash with large amounts of water obtain first aid and medical assistance if needed
Skin(during grinding)	Some may experience skin irritation from dust		Wash affected area with soap and water, Obtain medical assistance
Ingestion(during grinding)	No known adverse effects but ingestion not recommended		Obtain medical assistance
Other potential Health Risks(during grinding)	The grinding process may create elevated sound levels which may affect hearing		Obtain medical assistance

## Section 5: Fire Fighting Measures

Suitable extinguishing material: <b>Use water</b>
Extinguishing material not suitable:
Hazards created from chemical burning:
Special protective equipment or precautions for firefighters: <b>none</b>

## Section 6: Accidental Release Measures

Personal precaution/protective equipment during clean up from spill:
Emergency procedures during clean up: <b>None</b>
Methods and material for containment:
Clean up procedure: <b>Normal housekeeping clean up procedures</b>

## Section 7: Handling and Storage

Precautions for safe handling: <b>Handle with adequate ventilation see OSHA 29 CFR 1910.94(ventilation) and 29 CFR 1910.1000 (air contaminants)</b>
Safe hygiene practices: <b>Local ventilation recommended, mechanical ventilation recommended</b>
Conditions for safe storage: <b>Normal storage and handling, see ANSI Standard B7.1</b>

## Section 8: Exposure Controls/Personal Protection

Chemical	OSHA/PEL	ACGIH/TLV
Copper	1mg/m3	1mg/m3
Tin	NAIF	NAIF
Graphite	15MPPCF	5mg/m3 (total dust)
Calcium Oxide	5mg/m3	2mg/m3
Silicon Carbide	15mg/m3(total dust)	10mg/m3(total dust)
Nickel	1mg/m3	1mg/m3
Phosphorus	.1mg/m3	.1mg.m3
Alpha-Alumina	15mg/m3 (total dust)	10mg/m3 (total dust)
Manganese	NAIF	5mg/m3
Molybdenum	15mg/m3	10mg/m3
Iron Oxide Fume	10mg/mg	5mg/m3
Silicon Powder	NAIF	NAIF
Aluminum Powder	NAIF	10mg/m3
Respiratory Protection	As needed. For approved dust respirators see OSHA 29 CFR 1910.134	
Protective Gloves	As desired by user	
Eye Protection	Recommended See OSHA 29 CFR 1910.133	
Other Equipment	As needed hearing protection see OSHA 29 CFR 1910.215(hearing protection)	
Measures to be taken during repair and maintenance of contaminated equipment that has been in contact with this material. See sections 7 and 8.		

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Solid	<b>Odor</b>	Possibly during use	<b>Vapor density</b>	NAIF
<b>Vapor pressure</b>	NAIF	<b>Melting Point</b>	>220 degrees C	<b>Boiling point</b>	NAIF
<b>Solubility in other solvent</b>	NAIF	<b>Evaporation Rate</b>	NAIF	<b>Flammability limit</b>	LEL N/A UEL N/A
<b>Specific Gravity</b>	2-4	<b>Percentage volatile by volume</b>	NAIF	<b>Solubility in water</b>	slight
<b>Flash Point</b>	NAIF	<b>Explosion Potential</b>	NAIF		

## Section 10: Stability and Reactivity

Conditions to be avoided: <b>NAIF</b>
Incompatible Materials: <b>NAIF</b>
Hazardous decomposition products: <b>In use, dust and decomposing organic fumes are generated. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components.</b> <b>Coolants may produce other decomposition products</b>

## Section 11: Toxicological Information

<b>Routes of Exposure</b>	<b>Acute Effects</b>		<b>Chronic Effects</b>	
<b>Inhalation(dusts)</b>	Coughing, shortness of breath		May affect breathing capacity	
<b>Eyes</b>	Dusts may irritate eyes			
<b>Skin</b>	Some may experience skin irritation from dust			
<b>Ingestion</b>	No known adverse effects but ingestion not recommended			
<b>Other</b>	The grinding process may create elevated sound levels which may affect hearing			
<b>Chemical</b>	<b>Carcinogen (Y/N)</b>	<b>Chemical</b>	<b>Carcinogen (Y/N)</b>	
Copper	N	Tin	N	
Graphite	N	Silicon Carbide	N	
Calcium Oxide		Phosphorus	N	
Nickel	Y	Manganese	N	
Alpha-Alumina	N	Iron Oxide Fume	N	
Molybdenum	N	Aluminum Powder	N	
Silicon Powder	N			

**Section 12: Ecological Information (non-mandatory)**

**Section 13: Disposal Consideration (non-mandatory)**

**Section 14: Transport Information (non-mandatory)**

**Section 15: Regulatory Information (non-mandatory)**

**Section 16: Other**