




SAFETY DATA SHEET

Section 1 Identification

Name: M Bond, L-M-N-P grades and all other type M bonds	Common Name: Metal Bond Diamond or Cubic Boron Nitride
Manufacturer: Continental Diamond Tool Corp	Address: 1221 Hartzell St.
City: New Haven	State: Indiana
Postal Code: 46774	Contact: Raymond Viggiano
Emergency Phone: 260-493-1294 Phone: 260-493-1294	Recommended Use: Super Abrasive Tooling

Section 2: Hazard Identification

Hazard Classification: Irritant
Signal Word: Warning
Hazard Statement: Grinding dust may cause respiratory, skin and/or eye irritation.
Pictograms: 
Precautionary Statement: 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)
Hazards not otherwise classified: N/A
Percentage of ingredients with unknown toxicity: none

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
Silicon Carbide	Crystolon	409-21-2	Y
Nickel	Nickel	7440-02-0	Y
Silver	Silver	7440-22-4	Y
Tungston	Tungston	7440-33-7	Y
Cobalt	Cobalt	7440-48-4	Y
Chromium Salts	Chromium	16065-83-1	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: Use water
Extinguishing material not suitable:
Hazards created from chemical burning:
Special protective equipment or precautions for firefighters: none

Section 6: Accidental Release Measures

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

Section 7: Handling and Storage

Precautions for safe handling: Handle with adequate ventilation
Safe hygiene practices:
Conditions for safe storage: Normal storage and handling, see ANSI Standard B7.1

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)
Silicon Carbide	15mg/m3(total dust)	10mg/m3(total dust)
Nickel	1mg/m3	1mg/m3
Silver	.01mg/m3	.1mg/m3
Tungsten		5,S10
Cobalt	.1mg/m3	.1mg/m3
Chromium Salts(trivalent)	.1mg/m3	.05mg/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

Appearance	Solid	Odor	Possibly during use	Vapor density	NAIF
Vapor pressure	NAIF	Melting Point	>800 degrees C	Boiling point	NAIF
Solubility in other solvent	Dissolves in strong acid	Evaporation Rate	NAIF	Flammability limit	LEL N/A UEL N/A
Specific Gravity	6-14	Percentage volatile by volume	0	Solubility in water	slight

Section 10: Stability and Reactivity

Conditions to be avoided: NAIF
Incompatible Materials: NAIF
Hazardous decomposition products: 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.
Coolants may produce other decomposition products

Section 11: Toxicological Information

Routes of Exposure		Acute Effects		Chronic Effects	
Inhalation(dusts)		Coughing, shortness of breath		May affect breathing capacity	
Eyes		Dusts may irritate eyes			
Skin		Some may experience skin irritation from dust			
Ingestion		No known adverse effects but ingestion not recommended			
Other		The grinding process may create elevated sound levels which may affect hearing			
Chemical	Carcinogen (Y/N)	Chemical	Carcinogen (Y/N)		
Copper	N	Tin	N		
Graphite	N	Silicon Carbide	N		
Nickel	Y	Silver	N		
Tungsten	N	Cobalt	N		
Chromium Salts	Y				

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