

Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard.
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration

MARCH 2007

IDENTITY: SUPERBEE TUNGSTEN CARBIDE & TITANIUM CARBIDE.	Synonyms: CARBIDE INSERTS, CEMENTED CARBIDE INSERTS.
Section I Manufacturer's Name: NEW TECH CUTTING TOOLS, INC.	Emergency Telephone Number (253) 854-7779
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information (800) 225-9876
633 South Central Avenue	Date Prepared 03/19/2007
Kent, WA. 98032	

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL ACGIH TLV Percent by weight		
CEMENTED TUNGSTEN CARBIDE PRODUCT WITH COBALT BINDER.			
CEMENTED TITANIUM CARBIDE PRODUCT WITH NICKEL & COBALT BINDER. ALL SUPERBEE TUNGSTEN CARBIDE & TITANIUM CARBIDE			
REFRACTORY METAL.			
TUNGSTEN CARBIDE (LIMITS FOR TUNGSTEN DUST)	-----	5 mg/m3	55 to 97% *
COBALT		0.1 mg/m3	0.1 mg/m3 3 to 15% *
NICKEL		0.1 mg/m3	0.1 mg/m3 3 to 15% *
TANTALUM CARBIDE (LIMITS FOR TANTALUM DUST)	5 mg/m3	5 mg/m3	0.0 to 15% *
TITANIUM CARBIDE (LIMITS FOR TITANIUM DUST)	5 mg/m3	5 mg/m3	0.0 to 50% *
CHROMIUM CARBIDE (LIMITS FOR CHROMIUM ⁽⁺³⁾ DUST)	1 mg/m3	0.5 mg/m3	0.0 to 0.5% *
* DEPENDING ON GRADE SPECIFICATION			

Section III - Physical/Chemical Characteristics

Boiling Point -	N/A	Specific Gravity (H ₂ O = 1)	5.0 to 15.5
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Insoluble		
Appearance and Odor	Dark Grey Metal / None		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method used)	N/A	Flammable Limits	N/A	LEL	N/A	UEL	N/A
Extinguishing Media:	For powder fires, smother with dry sand, dry dolomite, ABC type fire extinguisher, or flood with water.						
Special Fire Fighting Procedures:	For a powder fire confined to a small area, use a respirator approved for toxic dust and fumes. For a large fire, fire fighters should use self contained breathing apparatus.						
Unusual Fire and Explosion Hazards:	Dusts may present a fire or explosion hazard under rare favoring conditions of particle size, dispersion, and a strong ignition source. However, this is not expected to be a problem under normal handling conditions.						

SUPERBEE CARBIDE INSERTS

Section V - Reactivity Data

Stability	Unstable		Conditions to avoid	N/A
	Stable	X		

Incompatibility (Materials to Avoid) Strong acids

Hazardous Decomposition or By-products - None.

Hazardous Polymerization	May Occur		Conditions to Avoid	N/A
	Will Not Occur	X		

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes Eyes? Yes

Health Hazards (Acute and Chronic)

Skin: Can cause irritation or an allergic skin rash due to cobalt and/or nickel sensitivity.

Eyes: Can cause irritation.

Inhalation: Dust from grinding can cause irritation of the nose and throat. It also has the potential for causing transient or permanent respiratory disease, including occupational asthma and interstitial fibrosis in a small percentage of exposed individuals. It is reported that cobalt dust is the most probable cause of such respiratory diseases. Symptoms include productive cough, wheezing, shortness of breath, chest tightness, and weight loss. Interstitial fibrosis (lung scarring) can lead to permanent disability or death.

Ingestion: Reports outside the industry suggest that ingestion of significant amounts of cobalt and/or nickel has the potential for causing blood, heart, and other organ problems.

Carcinogenicity: NTP? None IARC Monographs? N/A OSHA Regulated? N/A

Section VII - Precautions for Safe Handling and Use

Spill or leak: Ventilate area of spill. Clean up using methods which avoid dust generation such as vacuum (with appropriate filter to prevent airborne dust levels which exceed PEL or TLV), wet dust mop or wet clean up. If airborne dust is generated, use a NIOSH approved respirator.

Waste disposal method: Dispose of in accordance with appropriate government regulations. May be sold as scrap for reclaim.

Precautions to be taken in handling and storage: Maintain good housekeeping procedures to prevent dust accumulation during grinding. Avoid dust inhalation and direct skin contact with dust.

Section VIII - Control Measures

Respiratory Protection: Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV All appropriate requirements set forth in 29 CFR 1910.134 should be met.

Ventilation: Use local exhaust ventilation which is adequate to limit personal exposure to airborne dust to levels which do not exceed the PEL or TLV. If such equipment is not available use respirators as specified above.

Protective Gloves: Protective gloves or Barrier cream are recommended when contact with dust or mist is likely. Prior to applying the Barrier cream or use of protective gloves, wash thoroughly.

Eye Protection: Safety glasses or goggles with side shields are recommended.

Other Protective Clothing or Equipment: N/A

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