



MATERIAL SAFETY DATA SHEET

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Manufacturer: Leitz Werkzeugdienst GmbH
Germany

USA Distributor: Leitz Tooling Systems, Inc.
4301 East Paris Avenue SE
Grand Rapids, Michigan 49512

Chemical Name: Cemented Tungsten Carbide with Cobalt Binder

Chemical Family: Refractory Metal Carbide

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Section II - Composition

Material	Percent
Tungsten Carbide	67.0 - 97.6
Cobalt	2.4 - 27.0
Tantalum Carbide	0.0 - 50.0
Chromium Carbide	0.0 - 5.1
Chromium	0.0 - 4.5

Section III - Physical & Chemical Data

Appearance and Odor:	Dark Gray, No odor
Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Solubility in Water:	N/A
Percent Volatile by Volume:	0
Evaporation Rate:	N/A

Section IV - Special Precautions

Maintain good housekeeping procedures to prevent accumulation of dust (metal and abrasive particles) during grinding. Avoid dust inhalation and direct skin contact with dust.

Clean up using methods which avoid dust generation such as vacuum (with appropriate filter to prevent airborne dust levels which exceed the PEL or TLV), wet dust mop or wet clean up. While grinding, use appropriate NIOSH approved respirator.

Wash hands thoroughly after handling, before eating or smoking. Wash exposed skin at the end of work shift.

Periodic medical examinations are recommended for individuals regularly exposed to grinding mist.

Section V – Corrosivity and Reactivity Data

Stability:	Stable
Materials to Avoid:	Strong Acids
Hazardous Decomposition Products:	None
Conditions to Avoid:	N/A

Section VI – Health, First Aid and Medical Data

While grinding, dust is generated which may be inhaled, even with the use of a dust collection system. This is classified as inert or nuisance dust and would have the pulmonary effects of inert dust. Dust may be inhaled or come in contact with skin or eyes.

<u>Routes of Exposure</u>	<u>Effects of Overexposure</u>	<u>Emergency and First Aid Procedures</u> (Applicable for dusts or mists)
Inhalation	Dust from grinding can cause irritation of nose and throat	If symptoms of pulmonary involvement develop (coughing, wheezing, shortness of breath, etc.) remove from exposure and seek medical attention.
Skin Contact	Irritation or rash may occur	Wash affected area with soap and water and isolate from exposure. If rash persists, seek medical attention
Eye Contact	Irritation may occur	Flush with copious amounts of water. If irritant persists, seek medical attention
Ingestion		If substantial quantities are swallowed dilute with large amount of water, induce vomiting and seek medial attention

Carcinogenic Assessment (NTP Annual Report, IARC Monographs, other):
None of the components of this material have been identified as known or suspected carcinogens by NTP, IARC or OSHA.

Section VII – Spill or Leak Procedures

Clean-up using methods which avoid dust generation such as vacuum, wet dust mop, or wet clean up. If airborne dust is generated, use appropriate NIOSH approved respirator.

Dispose of in accordance with appropriate government regulations.

Section VIII – Personal Protection

Respiratory Protection: Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV.

Ventilation: Use local ventilation which is adequate to limit personal exposure to respirable 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: Use protective gloves or barrier cream when in contact with dust or mist.

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

Section IX – Fire and Explosion Data

Flash Point: N/A

Not a fire hazard. Dust generated by mixture of abrasive particles while grinding may ignite if allowed to accumulate in a dry state.