

## MATERIAL SAFETY DATA SHEET

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**MSDS Number:** 99590 ; CS10S ; CS18 ; CS26A ; CS618S ; CS6S ; CS8S ; DB18 ;

### I. CHEMICAL PRODUCT IDENTIFICATION

**Product Name:** COUNTERSINKS  
**HMIS Ratings:**  
**NFPA Ratings:**

### II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
CHROMIUM	4770-47-3	4.5	.5 MG/M <sup>3</sup> (DUST); .05 MG/M <sup>3</sup> (FUME)	.5 MG/M <sup>3</sup> (DUST); .1 MG/M <sup>3</sup> * (FUME)			
<b>Notes</b>							
VANADIUM	1314-62-1	4.5	.05 MG/M <sup>3</sup> (DUST)	.5 MG/M <sup>3</sup> (DUST)*			
<b>Notes</b>							
MOLYBDENUM	7439-98-7	10.5	10 MG/M <sup>3</sup>	15 MG/M <sup>3</sup>			
<b>Notes</b>							
IRON	1309-37-1	REM.	5 MG/M <sup>3</sup>	10 MG/M <sup>3</sup>			
<b>Notes</b>							
NICKEL	7440-02-0	0.5	1 MG/M <sup>3</sup>	1 MG/M <sup>3</sup>			
<b>Notes</b>							
COBALT	7440-48-4	9.0	.02 MG/M <sup>3</sup>	.1 MG/M <sup>3</sup>			
<b>Notes</b>	PREMIUM COBALT TOOLS ONLY						
MANGANESE	7439-96-5	0.5	.2 MG/M <sup>3</sup> *	.5 MG/M <sup>3</sup> *			
<b>Notes</b>							
SILICON	7440-21-2	1	10 MG/M <sup>3</sup> (DUST)				
<b>Notes</b>							
TUNGSTEN	7440-33-7	12.5	5 MG/M <sup>3</sup>				
<b>Notes</b>							
<b>Other:</b>	*MAXIMUM LIMIT						

### III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

**Medical Conditions**

**Aggravated by Exposure:**

**Other:**

THIS PRODUCT IS NOT CONSIDERED, IN THE FORM THAT IT IS SOLD, TO CONSTITUTE A HEALTH HAZARD. ABRADING, MELTING, WELDING, CUTTING

OR ANY OTHER FORM OF PROCESSING WHICH CAUSES A RELEASE OF DUST OR FUME MAY CAUSE SOME INGREDIENTS TO CHANGED TO A FORM WHICH COULD AFFECT EXPOSED WORKERS.

#### IV. FIRST AID MEASURES

<b>Eyes:</b>	FLUSH WITH WATER, SEE PHYSICIAN.
<b>Skin:</b>	WASH WITH SOAP AND WATER.
<b>Ingestion:</b>	SEEK MEDICAL ATTENTION IF LARGE QUANTITY HAS BEEN INGESTED.
<b>Inhalation:</b>	REMOVE TO FRESH AIR, CONSULT PHYSICIAN IF SYMPTOMS PERSIST.
<b>Other:</b>	<p>CHROMIUM HAS A HIGH PULMONARY TOXICITY, IT IS AN EXPERIMENTAL CAUSE OF NEOPLASM(S) AND IS A CARCINOGEN.</p> <p>VANADIUM MAY ACT AS A IRRITANT TO THE CONJUNCTIVAE AND RESPIRATORY TRACT.</p> <p>MOLYBDENUM CAN BE TOXIC VIA INTRAPERITONEAL AND SUBCUTANEOUS ROUTES. AVOID INHALTION OF LARGE AMOUNTS OF DUST OR FUME.</p> <p>IRON DUST CAN CAUSE CONJUNCTIVITS, CHOROIDITIS, RENTINITIS AND SIDEROSIS OF TISSUES. IRON OXIDE FUME FROM WELDING CAN CAUSE CHRONIC BRONCHITIS (WITH CONTINUED EXPOSURE).</p> <p>NICKEL IS A POTENTIAL CARCINOGEN AND CASUE NEOPLASM(S).</p> <p>COBALT OVEREXPOSURE CAN CAUSE CHRONIC INTERSTITIAL PNEUMONITIS. PROLONGED EXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.</p> <p>MANGANESE HAS A HIGH TOXICITY VIA INTRAPERITONEAL AND INHALATION ROUTES. PROLONGED EXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.</p> <p>SILICON PARTICULATE MATTER SHOULD NOT BE INHALED. PROLONGED EXPOSURE CAN CAUSE SILICOSIS.</p> <p>TUNGSTEN IS GENERALLY NOT REGARDED AS AN INDUSTRIAL TOXIN, HOWEVER, NO DUST WHEN INHALED IN SUFFICIENT QUANTITY IS COMPLETELY INERT.</p>

#### V. FIRE FIGHTING MEASURES

<b>Flash Point:</b>	NONE
<b>Unusual Fire or Explosion</b>	NONE
<b>Hazards:</b>	

#### VI. ACCIDENTAL RELEASE MEASURES

<b>Containment/Cleanup:</b>	N/A
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#### VII. HANDLING AND STORAGE

<b>Other:</b>	USE GOOD HOUSEKEEPING PRACTICES TO PREVENT ACCUMULATIONS OF DUST AND TO KEEP AIRBORNE DUST CONCENTRATIONS AT A MINIMUM.<B>CUTTING TOOLS MAY SHATTER IN USE, WEAR EYE PROTECTION AD USE MACHINE SAFETY SHIELDS.
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#### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Eyes:</b>	WEAR SAFETY GLASSES AND BE SURE THAT MACHINE SAFETY SHIELDS ARE IN PLACE BEFORE MACHINING.
<b>Skin:</b>	HANDS: CUTTING TOOLS ARE SHARP, HANDLE CAREFULLY AND WEAR GLOVES WHEN NECESSARY.
<b>Respiratory:</b>	IF DUST OR FUMES EXCEED TLV AS INDICATED IN SECTION II OF THIS MSDS, PROVIDE NIOSH APPROVED RESPIRATORS.

<b>Engineering:</b>	VENTILATION REQUIREMENTS: GENERAL – RECOMMENDED, LOCAL – AS REQUIRED.
<b>Other:</b>	USE PROTECTIVE CLOTHING OR OTHER EQUIPMENT AS REQUIRED. USE GOOD HOUSEKEEPING PRACTICES TO PREVENT ACCUMULATIONS OF DUST AND TO KEEP AIRBORNE DUST CONCENTRATIONS AT A MINIMUM. CUTTING TOLLS MAY SHUTTLE IN USE, WEAR EYE PROTECTION AND USE MACHINE SAFETY SHIELDS.

#### IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	VARIOUS SHAPES
<b>Boiling Point:</b>	>5000°F
<b>Solubility in Water:</b>	INSOLUBLE
<b>Specific Gravity:</b>	7.8–8.2 (60°F)
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>Volatile Content:</b>	N/A

**Other:** MELTING POINT: 2500°F APPROX.

#### X. STABILITY AND REACTIVITY

**Stability:** CHEMICALLY STABLE

**Hazardous Decomposition** METALLIC OXIDES.

**Products:**

**Incompatible Products:** REACTS WITH STRONG ACIDS TO GENERATE HYDROGEN GAS.

#### XI. TOXICOLOGICAL INFORMATION

#### XII. ECOLOGICAL INFORMATION

**Ecotoxicity:**

#### XIII. DISPOSAL CONSIDERATIONS

**Disposal Method:** SOLIDS: SALE AS SCRAP.<B>PARTICULATES: FOLLOW FEDERAL, STATE AND LOCAL DISPOSAL REGULATIONS.

#### XIV. TRANSPORT INFORMATION

#### XV. REGULATORY INFORMATION

**EPA Sara Title III Chemical Listings:** SARA III SEC. 313 CHEMICAL: CHROMIUM, VANADIUM, NICKEL, COBALT, MANGANESE.<B>MAXIMUM LIMIT: CHROMIUM, VANADIUM MANGANESE.

**Supplemental State**

**Compliance Information:**

#### XVI. OTHER INFORMATION

#### WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND

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SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.