

MATERIAL SAFETY DATA SHEET

SECTION I NAME AND PRODUCT

Supplier: Eagle International
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TRADE NAME, COMMON NAME OR SPECIFICATION							
DIAMOND OR CUBIC BORON NITRIDE GRINDING WHEELS							
NFPA HAZARD SIGNAL							
Health: 1		Flammability: 0			Reactivity: 0		
CHEMICAL FAMILY OR PRODUCT TYPE							
ANY GRADE							
SECTION II COMPOSITION PER 29CFR 1910.1200 (G) (4)							
CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CAR OG (Y/N)
Silver****	85	Silver	Y	7440-22-4	.01 mg/m ³	.1mg/m ³	N
Cobalt****	60	Cobalt	Y	7440-48-4	.1mg/m ³	.1mg/m ³	N
Copper****	85	Copper	Y	7440-50-8	1mg/m ³	1mg/m ³	N
Tin	25	Tin	Y	7440-31-5	2mg/m ³	2mg/m ³	N
Graphite	5	Graphite	Y	7782-42-5	15MPPCF	5mg/m ³ (Respirable Dust)	N
Silicon Carbide	73	Crystolon	Y	409-21-2	10 mg/m ³ (Total Dust)	10 mg/m ³ (Total Dust)	N
Nickel****	82	Nickel	Y	7440-02-0	1mg/m ³	1mg/m ³	Y
Phosphorus****	1	Phosphorus	Y	7723-14-0	0.1mg/m ³	0.1mg/m ³	N
Manganese	3	Manganese	Y	7439-96-5	5mg/m ³	5mg/m ³	N
Molybdenum	1	Molybdenum	Y	7439-98-7	15mg/m ³	10mg/m ³	N
Silicon Powder	5	Silicon Powder	Y	7440-21-3	**NAIF	10mg/m ³	N
Silicon Powder	<1	Crystalline Silica	Y	14808-60-7	0.1mg/m ³	0.1mg/m ³	Y
*Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication Standard, and/or the Massachusetts General Law Chapter 111F, Right to Know Regulations. *Listed by NTP as a Carcinogen. Other studies are not in agreement with IRAC that nickel is a probably human carcinogen.							

SECTION III PHYSICAL AND CHEMICAL DATA

Boiling Point **NAIF	Melting Point >220 ⁰ C	Specific Gravity 2-4
Vapor Pressure **NAIF	Percent Volatile by VOL **NAIF	Vapor Density **NAIF
Evaporation Rate **NAIF	Solubility in Water Slight	Solubility in Alcohol **NAIF
Solubility in other solvent: **NAIF		Appearance and Odor Solid Product: may give off odor in use

SECTION IV SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: None

Other precautions: **NAIF

SECTION V CORROSIVITY AND REACTIVITY DATA

Stability: Stable

Polymerization: Will not occur

Incompatibility (materials to avoid): **NAIF

Decomposition Products: In use, dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

Conditions to be avoided: **NAIF

SECTION VI HEALTH, FIRST AID AND MEDICAL DATA

Primary Routes of Entry	Acute and Chronic Health Effects and Effect of Overexposure	First Aid and Medical Information
Inhalation (during grinding)	Acute: coughing, shortness of breath Chronic: may effect breathing capacity	Remove to fresh air Artificial respirations as needed Obtain medical assistance
Ingestion (during grinding)	No known adverse effects, but ingestion not recommended	Obtain medical assistance
Skin (during grinding) Contact and Absorption	Some may experience skin irritation form dust	Wash affected areas with soap and water. Obtain medical assistance
Eye (during grinding)	Dusts may irritate eyes	Wash with large amounts of water. Obtain first aid and medical assistance, if needed
Other potential health risks (during grinding)	Grinding may create elevated sound levels which may affect hearing and may aggravate preexisting respiratory conditions	Obtain medical assistance. There is limited information that crystalline silica is a carcinogen

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

Normal storage and handling: see ANSI Standard B7.1

Normal use: Handle with adequate ventilation. See OSHA 29CFR 1910.94 (ventilation) and 29CFR1910.1000 (air contaminants)

Steps to be taken in case of leaks or spills: normal cleanup procedures

Waste disposal methods: Standard landfill methods consistent with applicable federal, state, and local laws.

SECTION VIII PERSONAL PROTECTION INFORMATION

Respiratory protection (specify type) as needed. For approved dust respirators, see OSHA 29CFR 1910.134

Ventilation	Local	Recommended
	Mechanical (general)	Recommended
	Other	**NAIF
Protective gloves		As desired by user
Eye protection		Recommended - see OSHA 29CFR 1910.133
Other equipment		As needed hearing protection. See OSHA 29CFR 1910.95 (hearing protection)

Measures to be taken during repair and maintenance of contaminated equipment that has been in contact with this material.

See Section VII & VIII

SECTION VIX FIRE AND EXPLOSION HAZARD DATA

Flash Point: **NAIF	Method used: ***N/A	Flammable limits: LEL: N/A UEL ***N/A
Extinguishing media	Use water	
Special fire fighting procedures		None
Explosion potential		**NAIF

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