

SAFETY DATA SHEET

revision date 11/25/2016

Section 1: Identification

Product Name: Diamond or Cubic Boron Nitride Grinding Wheel

[Details of the supplier of the safety data sheet](#)

[Metallography World Corp dba Metallurgical Supplies](#)

[PO Box 516](#)

[Buffalo, NY 14207](#)

Section 2: Hazard Identification

PRIMARY ROUTES OF ENTRY: Inhalation or ingestion of dust created by use.

EFFECTS OF ACUTE OVEREXPOSURE:

SKIN: Potential for mild physical irritation with prolonged contact.

EYES: Physical irritation.

INHALATION: Nasal and respiratory physical irritation.

SWALLOWING: None expected, but not recommended.

FIRST AID PROCEDURES:

SKIN: Wash thoroughly with soap and water.

EYES: Flush thoroughly with water for 15 minutes, lifting upper and lower lids occasionally.

INHALATION: Remove individual to fresh air.

SWALLOWING: Do not induce vomiting. Keep person warm, quiet, and get immediate medical attention.

Section 3: Composition/Information on Ingredients

Ingredient	% by Wt	C.A.S. No.
Aluminum Oxide	0-10	1344-28-1
Aluminum	60-90	7429-90-5
Cubic Boron Nitride	0-10	10043-11-5
Calcium Oxide	0-5	1305-78-8
Copper	5-20	7440-50-8
Diamond	0-5	7782-40-3
Iron	60-80	7439-89-6
Nickel	0-5	7440-02-0
Silicon Carbide	0-10	409-21-2
Cured Resin	0-10	Mixture

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Section 4: First - Aid Measures

First Aid for exposure

- Eyes:** Flush with plenty of water. Do not rub eyes. If particles penetrate or become lodged in eye, do not attempt to remove. Cover both eyes to prevent natural movement. Obtain medical attention.
- Skin:** If irritation or rash occurs, remove contaminated clothing and shoes immediately. Wash with soap and water. Seek medical attention.
- Inhalation:** Remove from exposure area to fresh air. If breathing has stopped, perform emergency respiratory resuscitation. Get medical attention.

Signs and Symptoms of Exposure

- Acute:** Irritation, coughing, wheezing, shortness of breath
- Chronic:** Respiratory conditions

Section 5: Fire - Fighting Measures

- Flammability:** Non-flammable
- Flash Point:** none
- Autoignition Temperature:** Not applicable
- Flammable limit in air (% by volume):** Lower: Not applicable
Upper: Not applicable

Section 6: Accidental Release Measures

CLEAN-UP: Follow normal clean up procedures.

Section 7: Handling and Storage

Handling:

Maintain good housekeeping practices to prevent accumulation of dust.

Storage:

Store blades and wheels in a dry location.

Section 8: Exposure Controls/Personal Protection

- Engineering Controls:** Provide local exhaust ventilation to meet published or recommended exposure limits as per TLV-TWA.
- Personal Protection:**
- Eye/Face:** Safety glasses with side shields or goggles are recommended. Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye-wash fountain within the immediate work area for emergency use.
- Skin:** Protective clothing not required. However, avoid repeated or prolonged contact with this substance.
- Respiratory:** Protective gloves are not required but recommended. Respiratory protection should be provided based on the materials being ground. Consult the appropriate MSDS for guidelines.

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Fire Fighting: Self-contained breathing apparatus with a full face piece, operated in pressure-demand or other positive-pressure mode

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid

Odor: Odorless

Taste: Not available

pH: Not applicable

Boiling Point: Not applicable

Melting Point: Not applicable

Specific Gravity: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not available

Volatility: Not available

Odor Threshold: Not available

Solubility: Insoluble in water

Section 10: Stability and Reactivity

Stability: Stable under normal temperatures and pressures.

Incompatibilities: This product is intended for use exclusively as a grinding wheel.

The reactive characteristics of the various components of the product are not known to occur in a grinding application.

Decomposition: Thermal decomposition may release acrid smoke and irritating fumes.

Polymerization: Not known to occur.

Section 11: Toxicological Information

Toxicity: **Warning:** Overexposure to this material in the form of dust or mist from grinding is hazardous to health. May cause eye, skin, and mucous membrane irritation.

May cause temporary or permanent respiratory disease. Permanent respiratory disease can lead to disability or death. Certain pulmonary and skin conditions may be aggravated by exposure.

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Carcinogenic status: Nickel – Epidemiological studies indicate an increase incidence of cancer of the nasal cavity, lungs and possibly the larynx in nickel refinery workers.

None of the remaining components of this material has been identified as a known or suspected carcinogen.

Section 12: Ecological Information

General: Not expected to present any significant ecological problems.

Section 13: Disposal Considerations

Waste Disposal: Recycling is encouraged. Disposing in landfill is acceptable.

Section 14: Transport Information

DOT Hazard Class:	Not regulated.
Proper Shipping Name:	Not regulated.
Identification Number:	Not listed.
TDGA:	Not listed.

Section 15: Regulatory Information


No applicable information found.

Section 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. guidechem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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