

# SAFETY DATA SHEET

## EMERGENCY CONTACT

1-800-255-3924

revision date JAN 2025



4011 Hyde Park Blvd.  
P. O. Box 1075  
Niagara Falls, NY 14302-1075  
Telephone: (716) 282-6950  
Fax: (716) 282-6971  
www.metlabcorp.com

## SECTION 1 – IDENTIFICATION & EMERGENCY CONTACT INFORMATION

**Material Name:** Diamond Blades, Electroplated Steel grinding products or Boron Nitride

**Product Codes:** Various

## SECTION 2– HAZARDS IDENTIFICATION

**Acute health effects:** Grinding dust generated during product use may be hazardous.

**Boron:** **Skin:** Irritating to skin and mucous membranes

**Eye:** Irritating to the eyes

**Inhalation:** Inhalation of Boron compounds may cause pulmonary granulomas and emphysema.

**Chronic Health effects:** Long term exposure to Boron can lead to degeneration of the liver and kidney. Boron affects the central nervous system. Boron poisoning causes depression of the circulatory system, persistent vomiting and diarrhea, followed by shock and coma.

**Carcinogen effects:** International Agency for research on cancer (IARC) "Probably not carcinogenic to humans".

**Mutagenic effects:** Not available

**Teratogenic effects:** Not available

This document only covers the hazards of the abrasive technology being used.



## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Metal bonded wheels may contain any of the following ingredients, but not necessarily all of them. Take the appropriate precautions.

Chemical Name	Common Name	Cas #	OSHA PEL	ACGIH TLV	Carcinogen
Industrial Diamond	***	7782-40-3	***	***	N/Class 4
Cubic Boron Nitride	CBN	10043-11-5	***	***	N/Class 4
Nickel	***	7440-02-0	1mg/m3	1mg/m3	Y/Class 2B
Steel Core	***	12597-69-2	***	***	N/Class 4

Composition is proprietary.

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## SECTION 4 – FIRST AID MEASURES

- Eye Contact:** In case of eye contact, check for and remove contact lenses. Flush with tepid water for at least 15 minutes while holding the eye lids open. Seek medical attention if irritation persists.
- Skin Contact:** Carefully remove contaminated clothing, wash exposed area with soap and water and seek medical attention if the irritation persists or worsens.
- Inhalation Contact:** In case of inhalation, observe personal safety first, if possible move individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, call for medical assistance and administer artificial respiration.
- Ingestion Contact:** No known effects from ingestion, but care should be taken to prevent ingestion.

## SECTION 5 – FIRE, EXPLOSION DATA AND MEASURES

- Flammability:** Non-Flammable
- Auto-ignition:** Not Applicable
- Flash Point:** Not Applicable
- Flammable Limits: LEL:** Not Applicable UEL: Not Applicable
- Products of Combustion:** Not Available
- Extinguishing Media:** Not Applicable
- Explosion Hazard:** Not Available
- Fire Fighting Precautions & instructions:** Always wear Self Contained Breathing Apparatus (SCBA) on positive pressure. Use water to keep material in or near fire cool. Water from firefighting should be contained and disposed per instructions in **section 12**.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- In case of spill or release:** Not applicable – stable solid.

## SECTION 7 – HANDLING AND STORAGE

- Handling:** Do not breath dust, use only with adequate ventilation. Always wear the correct personal protective equipment per **Section 8**. Avoid any contact with eyes. If you have any symptoms of sickness seek medical assistance and provide medical personnel with a copy of this SDS. Keep away from incompatibles listed in **Section 10**.
- Storage:** Store product in a dry location apart from any of the incompatible chemicals listed in **Section 10**.

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation to provide fresh air during grinding process. Do not generate dust fumes or mist.

### Personal protective equipment (PPE) During grinding process

**Eye Protection:** Safety glasses with side shields are recommended

**Respiratory protection:** Proper ventilation or dust respirator

**Skin Protection:** Lab coat or apron

### Personal protective equipment in case of accidental spill

**Eye protection:** Dust and mist protective goggles or face shield.

**Respiratory Protection:** Proper ventilation

**Skin Protection:** Full protective suit with approved boots and gloves

**Fall Protection:** Proper footwear to prevent slips and falls

In case of spill observe the ACGIH TLV values when selecting the appropriate PPE

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Varies

**Physical State:** Solid

**Odor:** Odorless

**Solubility:** Insoluble

**PH:** Not Applicable

**Boiling Point:** Not Applicable

**Melting Point:** Not Applicable

**Viscosity:** Not Applicable

**Flash Point:** Not Applicable

**Auto Ignition:** Not Applicable

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## SECTION 10 - STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions

**Conditions to avoid:** See materials to avoid

**Materials to avoid:** Acids and Alkalis

**Hazardous decomposition products:** Not Available

**Hazardous Polymerization:** Will not occur

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Routes of Entry:** Inhalation and Ingestion

**Toxicity:** Not Available

**Special remarks on acute effects on humans:** Mild skin irritation, Eye irritation, Irritation of the mucous membranes, lung injury from dusts during the grinding operation, generally a low hazard during normal use.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** Not Available

**BOD and COD:** Not available

**Chronic Ecotoxicity:** Long term degradation products may be harmful.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of unused powder according to federal, state or local laws. Empty containers may contain trace amounts of powder and should be treated as harmful.

## SECTION 14 - TRANSPORT INFORMATION

**DOT Classification:** Not DOT Controlled (United States)

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## SECTION 15 - REGULATORY INFORMATION

<b>29CFR 1910.1200 Haz Com:</b>	Irritant, Eyes, Respiratory, Skin
<b>SARA 313:</b>	Not reportable
<b>HMIS (USA)</b>	<b>NFPA (USA)</b>
Health Hazard: 1	Health Hazard: 1
Fire Hazard: 0	Fire hazard: 0
Reactivity: 0	Reactivity: 0
PPE: E	PPE: Gloves, Lab Coat, Boots, Glasses, Respirator

## SECTION 16 – OTHER INFORMATION

Electroplated grinding products are sold for professional use only. Always inspect electroplated grinding products before operation for possible damage, do not use if damage is visible. Never operate metal bond products above the maximum operation speed. Always use proper machine guarding. Refer to ANSI B7.1 for "Safety requirements for the use, care and protection of abrasive wheels"

The information contained herein is based on data considered to be accurate. However no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third party persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the Safety Data Sheet.

Additionally, vendor assumes no responsibility for injury to vendee or third party persons proximately caused by improper use of this product even if reasonable safety procedures are followed. Vendee assumes all risk in the use of this material.