

SAFETY DATA SHEET

EMERGENCY CONTACT

1-800-255-3924

revision date JAN 2024



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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

29CFR 1910.1200 Haz Com:	Irritant, Eyes, Respiratory, Skin
SARA 313:	Not reportable
HMIS (USA)	NFPA (USA)
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.