



## Safety Data Sheet

### Section 1: Identification

#### Product identifier

**Product Name** • **Diamond/CBN Electroplated Grinding Wheels**

#### Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** • SuperAbrasive wheels are to be used in ventilated environment on grinders/machines per operating rpm as indicated by supplier. Face protection is recommended for use during grinding operations.

#### Details of the supplier of the safety data sheet

**Manufacturer** • Action Superabrasive Products

945 Greenbriar Parkway  
Brimfield, OH 44240  
United States  
www.actionsuper.com

**Telephone (General)** • 330-673-7333

**Telephone (Technical)** • 330-673-7333

#### Emergency telephone number

**Manufacturer** • 330-673-7333

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012** • Not classified

#### Label elements

**OSHA HCS 2012**

**Hazard statements** • No label element(s) required

#### Other hazards

**OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition		
Chemical Name	Identifiers	%
Steel Core	CAS:12597-69-2	N/A
Nickel	CAS:7440-02-0	N/A
Diamond	CAS:7782-40-3	N/A
Cubic boron nitride	CAS:10043-11-5	N/A

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

#### Skin

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

#### Eye

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

#### Ingestion

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.

### Most important symptoms and effects, both acute and delayed

- Under normal conditions of use, no health effects are expected.

### Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- No specific actions or treatments recommended related to exposure to this material.

## Section 5: Fire-Fighting Measures

### Extinguishing media

#### Suitable Extinguishing Media

- In case of fire use media as appropriate for surrounding fire. For powder fires smother with dry sand, dry dolomite, ABC type fire extinguisher, or flood with water.

#### Unsuitable Extinguishing Media

- No data available.

### Special hazards arising from the substance or mixture

#### Unusual Fire and Explosion Hazards

- Dusts generated in grinding operations may present a fire or explosion hazard under rare favoring conditions of particle size, dispersion and strong ignition source. However, this is not expected to be a problem under normal handling conditions.

#### Hazardous Combustion Products

- No data available

## Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended. If airborne dust is generated, use an appropriate respirator.

#### Emergency Procedures

- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

### Environmental precautions

- Avoid run off to waterways and sewers.

### Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Pick up large pieces and sweep up any smaller ones. If dusts are generated, clean up using methods to avoid dust generation, such as vacuum (with appropriate filter to prevent airborne dust levels which exceed the PEL or TLV), wet dust mop or wet clean up.

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Use good safety and industrial hygiene practices. Use only with adequate ventilation. Maintain good housekeeping procedures to prevent dust accumulation during grinding. Minimize free fall of powder and avoid dispersion of dust in air. Finely divided particles, dust, or fumes may be flammable or explosive. Avoid dust inhalation and direct skin contact with dust. Do not strike or impact product with hardened steel hammer or similar device because of possible fracture/shattering of product. Product should be pressed if inserted into another metal part or product. Wear appropriate personal protective equipment. Make sure tool is properly seated and safely clamped or held in place according to approved procedures. Always use machine guards and wear safety glasses and protective clothing to prevent injury in the event of tool breakage. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Store in a cool, dry place.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Nickel (7440-02-0)	TWAs	1.5 mg/m <sup>3</sup> TWA (inhalable fraction)	0.015 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA
Diamond	TWAs	10 mg/m <sup>3</sup> TWA (inhalable particles, recommended); 3 mg/m <sup>3</sup> TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>

**Exposure Control Notations****ACGIH**

- Nickel (7440-02-0): **Carcinogens:** (A5 - Not Suspected as a Human Carcinogen)

**Exposure Limits Supplemental****ACGIH**

- Nickel (7440-02-0): **TLV Basis - Critical Effects:** (dermatitis; pneumoconiosis)

**Exposure controls****Engineering Measures/Controls**

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

**Personal Protective Equipment****Respiratory**

- In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/Face**

- Wear safety glasses.

**Skin/Body**

- Wear appropriate gloves.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

**Section 9 - Physical and Chemical Properties****Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Solid	Appearance/Description	Single layer plated solid grinding wheel.
Color	No data available	Odor	Odorless
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	No data available	Water Solubility	Insoluble
Viscosity	No data available		
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
<b>Flammability</b>			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

**Section 10: Stability and Reactivity**

**Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- No data available.

**Incompatible materials**

- Acids and Alkalis.

**Hazardous decomposition products**

- None

**Section 11 - Toxicological Information****Information on toxicological effects**

- Other Material Information**
- Note: Health effects listed are for exposure powders, dust, or mist from grinding. No health effects have been reported for exposure in solid form.

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available
Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available

**Potential Health Effects****Inhalation****Acute (Immediate)**

- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

**Chronic (Delayed)**

- No data available

**Skin****Acute (Immediate)**

- Exposure to dust may cause mechanical irritation.

**Chronic (Delayed)**

- No data available

**Eye**

**Acute (Immediate)** • Exposure to dust may cause mechanical irritation.

**Chronic (Delayed)** • No data available

### Ingestion

**Acute (Immediate)** • No data available

**Chronic (Delayed)** • No data available

**Carcinogenic Effects** • This material does contain a component that may cause cancer. Due to the form of the product, exposure to the potentially carcinogenic components is not expected.

## Section 12 - Ecological Information

### Toxicity

• No ecological data is available for this product.

### Persistence and degradability

• No ecological data is available for this product.

### Bioaccumulative potential

• No ecological data is available for this product.

### Mobility in Soil

• No ecological data is available for this product.

### Other adverse effects

• No hazards to the environment are expected from this product. However, consideration must be given to potential environment effects of the base material being processed.

## Section 13 - Disposal Considerations

### Waste treatment methods

**Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

**Special precautions for user** • None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • None

State Right To Know				
Component	CAS	MA	NJ	PA
Cubic boron nitride	10043-11-5	No	No	No
Diamond	7782-40-3	No	No	No
Nickel	7440-02-0	Yes	Yes	Yes
Steel Core	12597-69-2	No	No	No

Inventory		
Component	CAS	TSCA
Cubic boron nitride	10043-11-5	Yes
Diamond	7782-40-3	Yes
Nickel	7440-02-0	Yes
Steel Core	12597-69-2	No

**United States**

**Labor**

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**Environment**

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• Nickel	7440-02-0	100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Nickel	7440-02-0	0.1 % de minimis concentration
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**

• Nickel	7440-02-0	Included in waste streams: F006, F039
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**

• Nickel	7440-02-0	(total)
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261**

• Nickel	7440-02-0	hazardous constituent - no waste number
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents**

• Nickel	7440-02-0	(total)
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed



**U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards**

• Nickel	7440-02-0	3.98 mg/L (wastewater); 11.0 mg/L TCLP (nonwastewater)
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring**

• Nickel	7440-02-0	(total)
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Nickel	7440-02-0	carcinogen, initial date 10/1/89 (metallic)
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Nickel	7440-02-0	Not Listed
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Nickel	7440-02-0	
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

• Nickel	7440-02-0	
• Diamond	7782-40-3	Not Listed
• Cubic boron nitride	10043-11-5	Not Listed
• Steel Core	12597-69-2	Not Listed

**Other Information**

- WARNING: This product contains a chemical known to the State of California to cause cancer.

**Section 16 - Other Information****Revision Date**

- 29/October/2015

**Preparation Date**

- 29/October/2015

**Disclaimer/Statement of Liability**

- Although Action Superabrasive Products has attempted to provide current and accurate information herein, Action Superabrasive Products makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person. It shall be the responsibility of the customer purchasing this product to ensure that all employees/users of this product are familiar with and trained in the handling, use and hazards associated with this product as contained herein. This responsibility shall also extend directly to the user.

**Key to abbreviations**

NDA = No Data Available