Resin Bond Grinding Products Diamond or Cubic Boron Nitride

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Date of Issue: 12/05/2018

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier
Product Form: Mixture
Product Name: Resin Bond Grinding Products Diamond or Cubic Boron Nitride
Product Code: Various

1.2. Intended Use of the Product
Use of the Substance/Mixture: Devices used for shaping, grinding and/or polishing.

1.3. Name, Address, and Telephone of the Responsible Party
Company
Abrasive Technology, Inc
8400 Greenwood Meadows Dr.
P.O. Box 545
Lewis Center, OH 43035
T: 740-548-4100 (8:00am - 5:00pm EST)
F: 740-548-7617

1.4. Emergency Telephone Number
Emergency Number : North America: 800-424-9300 (Chemtrec - 24 hours) Outside North America (Collect): 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Eye Irrit. 2 H319
Resp. Sens. 1 H334
Skin Sens. 1 H317
Carc. 1B H350
Repr. 2 H361
STOT RE 1 H372
Aquatic Acute 1 H400
Aquatic Chronic 2 H411
Full text of hazard classes and H-statements : see section 16

2.2. Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US) : ![GHS07](image) ![GHS08](image) ![GHS09](image)

Signal Word (GHS-US) : Danger
Hazard Statements (GHS-US) : H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
H350 - May cause cancer (inhalation).
H361 - Suspected of damaging fertility or the unborn child.
H372 - Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust, fume.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P284 - [In case of inadequate ventilation] wear respiratory protection.
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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>Synonyms</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US classification</th>
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<tr>
<td>Silicon carbide</td>
<td>Silicon carbide (SiC) / Silicon carbide, fibrous / Silicon carbide whiskers / Silicon carbide, non-fibrous</td>
<td>(CAS-No.) 409-21-2</td>
<td>1 - 60</td>
<td>Carc. 1B, H350 STOT RE 1, H372 Comb. Dust</td>
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<tr>
<td>Chromium oxide (Cr2O3)</td>
<td>C.I. 77288 / C.I. Pigment Green 17 / Chromic oxide / Chromium Oxide Green / Chromium(3+) oxide / Dichromium trioxide / Chromium(II) oxide / Chromium sesquioxide / CHROMIUM OXIDE GREENS / Pigment Green 17 / Chromium(III) oxide (Cr2O3) / Dichromium(III) trioxide / Chromium oxide green DIAMOND POWDER</td>
<td>(CAS-No.) 1308-38-9</td>
<td>1 - 45</td>
<td>Not classified</td>
</tr>
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<td>Diamond</td>
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<td>(CAS-No.) 7782-40-3</td>
<td>1 - 40</td>
<td>Not classified</td>
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<tr>
<td>Boron nitride (BN)</td>
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<td>(CAS-No.) 10043-11-5</td>
<td>1 - 40</td>
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<td>Aluminum</td>
<td>Aluminium / Aluminium metal / Aluminium, metal / Aluminium metal / Aluminium, elemental / Aluminium, metal / C.I. 77000 / CI 77000 / Aluminium (metal) / Aluminium powder (stabilised) / Aluminium powder (stabilized) / Aluminium powder / Pigment Metal 1 / Aluminium powder / Aluminium metal, powder</td>
<td>(CAS-No.) 7429-90-5</td>
<td>1 - 40</td>
<td>Flam. Sol. 1, H228 Water-react. 2, H261 Comb. Dust</td>
</tr>
</tbody>
</table>

2.3. Other Hazards
Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

<table>
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<tr>
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### Section 4: First Aid Measures

#### 4.1 Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists. If exposed or concerned: Get medical advice/attention.

**First-aid Measures After Eye Contact:** Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes serious eye irritation. Skin sensitization. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer (inhalation). Suspected of damaging fertility or the unborn child. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).

Symptoms/Injuries After Inhalation: Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. During processing, the most significant route of exposure is by the inhalation (breathing) of dust or fumes. If fumes are inhaled, they can cause a condition commonly known as metal fume fever with symptoms which resemble influenza; Symptoms may be delayed 4-12 hours and begin with a sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms may include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalized feeling of malaise. Fever, chills, muscular pain, mild to severe headache, nausea, occasional vomiting, exaggerated mental activity, profuse sweating, excessive urination, diarrhea and prostration may also occur.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Direct contact may cause irritation by mechanical abrasion.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer by inhalation. Suspected of damaging fertility or the unborn child. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Aluminum: Inhalation of finely divided aluminum powder may cause pulmonary fibrosis. Silicon carbide is a suspected human carcinogen. The increased risk of lung cancer detected in the SiC production industry appears to be associated with high exposure levels to total dust, including crystalline silica and cristobalite. Iron: Repeated inhalation of iron oxide dust can cause siderosis a benign condition. Chromium: Certain hexavalent chromium compounds have been demonstrated to be carcinogenic on the basis of epidemiological investigations on workers and experimental studies in animals. Increased incidences of respiratory cancer have been found in chromium (VI) workers. There is an increased incidence of lung cancer in industrial workers exposed to chromium (VI) compounds. Please refer to IARC volume 23 for a more detailed discussion. Cobalt: Chronic exposure to cobalt-containing hard metal (dust or fume) can result in a serious lung disease called "hard metal lung disease", which is a type of pneumoconiosis (lung fibrosis). Copper: Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair. Tissue damage of mucous membranes may follow chronic dust exposure. Silver: Chronic skin contact or ingestion of silver dust, salts or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes. Nickel: May cause a form of dermatitis known as nickel itch and intestinal irritation, which may cause disorders, convulsions and asphyxia. Nickel metal powder, when respirable, is a suspected human carcinogen, and is known to cause damage to the lungs through inhalation. Titanium dioxide: Repeated or prolonged exposure to titanium dioxide dust via inhalation is suspected of causing cancer of the respiratory tract.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Dry sand; Class D Extinguishing Agent (for metal powder fires).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire. Do not use water when molten material is involved, may react violently or explosively on contact with water.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: As shipped this product is not flammable, but contains substances that are flammable solids. If significant dust is generated under normal use, the dust may exhibit these characteristics.

Explosion Hazard: Product is not explosive. Contains substances that are combustible dusts. If the product is processed and dusts are generated and become dispersed with an ignition source, this may cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Reactivity: Hazardous reactions will not occur under normal conditions. Contact with concentrated acid or alkali can result in evolution of hydrogen gas.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Do not disturb burning metal.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
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Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid generating dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

6.1.1. For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protective equipment (PPE).

6.1.2. For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions
Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. For particulates and dust: Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools. Contact competent authorities after a spill.

6.4. Reference to Other Sections
See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: For industrial or professional use only. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use, and replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. The potential hazards of the substrate being processed should be reviewed and taken into consideration before grinding operations commence. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations. Metal dust generated from this product can be flammable, use appropriate precautions.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid creating or spreading dust. Avoid contact with eyes, skin and clothing. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When dry sawing or grinding, use dustless systems for handling, storage, and clean up so that airborne dust does not exceed the PEL. Use adequate ventilation and dust equipment. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Store locked up/in a secure area.


7.3. Specific End Use(s)

Devices used for shaping, grinding and/or polishing.
## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

#### Silicon carbide (409-21-2)

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>USA NIOSH</th>
<th>USA OSHA</th>
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<tbody>
<tr>
<td></td>
<td>ACGIH TWA (mg/m³)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
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<td>10 mg/m³ (nonfibrous, inhalable particulate matter, particulate matter containing no asbestos and &lt;1% crystalline silica)</td>
<td>10 mg/m³ (total dust)</td>
<td>15 mg/m³ (total dust)</td>
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<td>3 mg/m³ (nonfibrous, respirable particulate matter, particulate matter containing no asbestos and &lt;1% crystalline silica)</td>
<td>5 mg/m³ (respirable dust)</td>
<td>5 mg/m³ (respirable fraction)</td>
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<tr>
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<td>0.1 fibers/cm³ (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers, including whiskers, length &gt;5 µm, aspect ratio &gt;=3:1)</td>
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#### Aluminum oxide (Al2O3) (1344-28-1)

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<td>15 mg/m³ (total dust)</td>
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<td>5 mg/m³ (respirable fraction)</td>
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#### Calcium oxide (1305-78-8)

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<td>OSHA PEL (TWA) (mg/m³)</td>
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<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td>25 mg/m³</td>
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#### Iron oxide (Fe2O3) (1309-37-1)

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<td>ACGIH TWA (mg/m³)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>US IDLH (mg/m³)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³ (respirable particulate matter)</td>
<td>5 mg/m³ (dust and fume)</td>
<td>2500 mg/m³ (dust and fume)</td>
<td>10 mg/m³ (fume)</td>
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<td></td>
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<td></td>
<td></td>
<td>15 mg/m³ (total dust)</td>
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<td></td>
<td></td>
<td></td>
<td>5 mg/m³ (respirable fraction)</td>
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#### Chromium oxide (Cr2O3) (1308-38-9)

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<td>ACGIH TWA (mg/m³)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>0.05 mg/m³ (0.5 mg/m³ (Cr II &amp; Cr III Compounds)) 0.05 mg/m³ (Cr VI Water Soluble)</td>
<td>1 mg/m³ (metal) (0.5 mg/m³ (Cr II &amp; Cr III Compounds)) 0.005 mg/m³ (Cr VI Compounds)</td>
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#### Graphite (7782-42-5)

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<td>NIOSH REL (TWA) (mg/m³)</td>
<td>US IDLH (mg/m³)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
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<tr>
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<td>2 mg/m³ (all forms except graphite fibers-respirable particulate matter)</td>
<td>2.5 mg/m³ (natural-respirable dust)</td>
<td>1250 mg/m³</td>
<td>15 mg/m³ (synthetic-total dust)</td>
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<td>5 mg/m³ (synthetic-respirable fraction)</td>
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#### Cobalt (7440-48-4)

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<td>ACGIH TWA (mg/m³)</td>
<td>ACGIH chemical category</td>
<td>Biological Exposure Indices (BEI)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>0.02 mg/m³</td>
<td>Confirmed Animal Carcinogen with Unknown Relevance to Humans</td>
<td>15 µg/l Parameter: Cobalt - Medium: urine - Sampling time: end of shift at end of workweek (nonspecific)</td>
<td>0.1 mg/m³ (dust and fume)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20 mg/m³ (dust and fume)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.05 mg/m³ (dust and fume)</td>
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8.2. Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Avoid creating or spreading dust. For particulates and dust: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Solid
Resin Bond Grinding Products Diamond or Cubic Boron Nitride

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Appearance: Solid metal or resin
Odor: No data available
Odor Threshold: No data available
pH: No data available
Evaporation Rate: No data available
Melting Point: No data available
Freezing Point: No data available
Boiling Point: No data available
Flash Point: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flammability (solid, gas): No data available
Vapor Pressure: No data available
Relative Vapor Density at 20°C: No data available
Relative Density: No data available
Solubility: Water: Insoluble
Partition Coefficient: N-Octanol/Water: No data available
Viscosity: No data available

SECTION 10: STABILITY AND REACTIVITY
10.1. Reactivity: Hazardous reactions will not occur under normal conditions. Contact with concentrated acid or alkali can result in evolution of hydrogen gas.
10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
10.4. Conditions to Avoid: Extremely high or low temperatures and incompatible materials. Dust accumulation (to minimize explosion hazard).

SECTION 11: TOXICOLOGICAL INFORMATION
11.1. Information on Toxicological Effects
Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 Oral Rat</th>
<th>LC50 Inhalation Rat</th>
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<tbody>
<tr>
<td>Boron nitride (BN) (10043-11-5)</td>
<td>&gt; 5000 mg/kg body weight</td>
<td>&gt; 5 mg/l/4h</td>
</tr>
<tr>
<td>Aluminum oxide (Al2O3) (1344-28-1)</td>
<td>&gt; 15900 mg/kg</td>
<td>&gt; 2.3 mg/l/4h</td>
</tr>
<tr>
<td>Calcium oxide (1305-78-8)</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 2500 mg/kg</td>
</tr>
<tr>
<td>Iron oxide (Fe2O3) (1309-37-1)</td>
<td>&gt; 10000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Chromium oxide (Cr2O3) (1308-38-9)</td>
<td>&gt; 5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Cobalt (7440-48-4)</td>
<td>6171 mg/kg</td>
<td>&gt; 10 mg/l (Exposure time: 1 h)</td>
</tr>
<tr>
<td>Silver (7440-22-4)</td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>
Nickel (7440-02-0)

LD50 Oral Rat: > 9000 mg/kg
LC50 Inhalation Rat: > 10.2 mg/l (Exposure time: 1 h)

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Causes serious eye irritation.
Respiratory or Skin Sensitization: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ Cell Mutagenicity: Not classified
Carcinogenicity: May cause cancer.

OSHA Hazard Communication Carcinogen List
In OSHA Hazard Communication Carcinogen list.

Nickel (7440-02-0)
IARC group: 2B
National Toxicology Program (NTP) Status: Reasonably anticipated to be Human Carcinogen.
OSHA Hazard Communication Carcinogen List: In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.
Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. During processing, the most significant route of exposure is by the inhalation (breathing) of dust or fumes. If fumes are inhaled, they can cause a condition commonly known as metal fume fever with symptoms which resemble influenza. Symptoms may be delayed 4-12 hours and begin with a sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms may include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalized feeling of malaise. Fever, chills, muscular pain, mild to severe headache, nausea, occasional vomiting, exaggerated mental activity, profuse sweating, excessive urination, diarrhea and prostration may also occur.
Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Direct contact may cause irritation by mechanical abrasion.
Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.
**Resin Bond Grinding Products Diamond or Cubic Boron Nitride**

**Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Chronic Symptoms**: May cause cancer by inhalation. Suspected of damaging fertility or the unborn child. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Aluminum: Inhalation of finely divided aluminum powder may cause pulmonary fibrosis. Silicon carbide is a suspected human carcinogen. The increased risk of lung cancer detected in the SiC production industry appears to be associated with high exposure levels to total dust, including crystalline silica and cristobalite. Iron: Repeated inhalation of iron oxide dust can cause siderosis a benign condition. Chromium: Certain hexavalent chromium compounds have been demonstrated to be carcinogenic on the basis of epidemiological investigations on workers and experimental studies in animals. Increased incidences of respiratory cancer have been found in chromium (VI) workers. There is an increased incidence of lung cancer in industrial workers exposed to chromium (VI) compounds. Please refer to IARC Volume 28 for a more detailed discussion. Cobalt: Chronic exposure to cobalt-containing hard metal (dust or fume) can result in a serious lung disease called “hard metal lung disease”, which is a type of pneumoconiosis (lung fibrosis). Copper: Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair. Tissue damage of mucous membranes may follow chronic dust exposure. Silver: Chronic skin contact or ingestion of silver dust, salts or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes. Nickel: May cause a form of dermatitis known as nickel itch and intestinal irritation, which may cause fertility or the unborn child. Causes damage to the lungs through inhalation. Titanium dioxide: Repeated or prolonged exposure to titanium dioxide dust via inhalation is suspected of causing cancer of the respiratory tract.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Ecology - General**: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Aluminum oxide (Al2O3) (1344-28-1)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>&gt; 100 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 100 mg/l</td>
</tr>
<tr>
<td>ErC50 (Algae)</td>
<td>&gt; 100 mg/l</td>
</tr>
<tr>
<td>NOEC (Acute)</td>
<td>&gt; 50 mg/l</td>
</tr>
</tbody>
</table>

**Calcium oxide (1305-78-8)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>50.6 mg/l</td>
</tr>
</tbody>
</table>

**Chromium oxide (Cr2O3) (1308-38-9)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOEC Chronic Fish</td>
<td>1000 mg/l (Species: Brachydanio rerio - Duration: 30 d)</td>
</tr>
</tbody>
</table>

**Cobalt (7440-48-4)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>&gt; 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])</td>
</tr>
</tbody>
</table>

**Silver (7440-22-4)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>0.00155 (0.00155 - 0.00293) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>0.00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>0.0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])</td>
</tr>
</tbody>
</table>

**Nickel (7440-02-0)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>121.6 μg/l (Exposure time: 48h - Species: Ceriodaphnia dubia [static])</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>15.3 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td>
</tr>
<tr>
<td>EC50 Other Aquatic Organisms 2</td>
<td>0.174 (0.174 - 0.311) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])</td>
</tr>
</tbody>
</table>

**Copper (7440-50-8)**

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td>
</tr>
<tr>
<td>EC50 Other Aquatic Organisms 1</td>
<td>0.0426 (0.0426 - 0.0535) mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>&lt; 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
<tr>
<td>EC50 Other Aquatic Organisms 2</td>
<td>0.031 (0.031 - 0.054) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])</td>
</tr>
</tbody>
</table>

**12.2. Persistence and Degradability**

**Resin Bond Grinding Products Diamond or Cubic Boron Nitride**

**Persistence and Degradability**: May cause long-term adverse effects in the environment.
Resin Bond Grinding Products Diamond or Cubic Boron Nitride

Safety Data Sheet
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Copper (7440-50-8)
Persistence and Degradability Not readily biodegradable.

12.3. Bioaccumulative Potential

Resin Bond Grinding Products Diamond or Cubic Boron Nitride
Bioaccumulative Potential Not established.
Calcium oxide (1305-78-8)
BCF Fish 1 (no bioaccumulation)
Cobalt (7440-48-4)
BCF Fish 1 (no bioaccumulation)

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport
14.2. In Accordance with IMDG Not regulated for transport
14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Resin Bond Grinding Products Diamond or Cubic Boron Nitride

SARA Section 311/312 Hazard Classes
Health hazard - Carcinogenicity
Health hazard - Reproductive toxicity
Health hazard - Specific target organ toxicity (single or repeated exposure)
Health hazard - Respiratory or skin sensitization
Health hazard - Serious eye damage or eye irritation

Diamond (7782-40-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Boron nitride (BN) (10043-11-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silicon carbide (409-21-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Aluminum oxide (Al2O3) (1344-28-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 1 % (fibrous forms)

Calcium oxide (1305-78-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Iron oxide (Fe2O3) (1309-37-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Chromium oxide (Cr2O3) (1308-38-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Graphite (7782-42-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cobalt (7440-48-4)

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### Resin Bond Grinding Products Diamond or Cubic Boron Nitride

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<table>
<thead>
<tr>
<th>Substance</th>
<th>Inventory</th>
<th>Reporting Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver (7440-22-4)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>SARA Section 313 - Emission Reporting 0.1 %</td>
</tr>
<tr>
<td>Tungsten carbide (12070-12-1)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>SARA Section 313 - Emission Reporting 1 % (dust or fume only)</td>
</tr>
<tr>
<td>Aluminum (7429-90-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>SARA Section 313 - Emission Reporting 1 %</td>
</tr>
<tr>
<td>Nickel (7440-02-0)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>CERCLA RQ 100 lb (only applicable if particles are &lt; 100 µm)</td>
</tr>
<tr>
<td>Titanium hydride (TiH2) (7704-98-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>SARA Section 313 - Emission Reporting 0.1 %</td>
</tr>
<tr>
<td>Copper (7440-50-8)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td>CERCLA RQ 5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is &gt;100 µm</td>
</tr>
</tbody>
</table>

### 15.2. US State Regulations

#### Silicon carbide (409-21-2)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Aluminum oxide (Al2O3) (1344-28-1)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Calcium oxide (1305-78-8)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Iron oxide (Fe2O3) (1309-37-1)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Chromium oxide (Cr2O3) (1308-38-9)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List

#### Graphite (7782-42-5)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Cobalt (7440-48-4)

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<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt (7440-48-4)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel (7440-02-0)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**California Proposition 65**

⚠️ **WARNING:** This product can expose you to Cobalt, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Date of Preparation or Latest Revision: 12/05/2018

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 3</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 3</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 3</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity Category 1B</td>
</tr>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity Category 2</td>
</tr>
<tr>
<td>Comb. Dust</td>
<td>Combustible Dust</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation Category 2</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Sol. 1</td>
<td>Flammable solids Category 1</td>
</tr>
<tr>
<td>Flam. Sol. 2</td>
<td>Flammable solids Category 2</td>
</tr>
</tbody>
</table>
Resin Bond Grinding Products Diamond or Cubic Boron Nitride
Safety Data Sheet

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<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Repr. 2</td>
<td>Reproductive toxicity Category 2</td>
</tr>
<tr>
<td>Resp. Sens. 1</td>
<td>Respiratory sensitization, Category 1</td>
</tr>
<tr>
<td>Resp. Sens. 1B</td>
<td>Respiratory sensitization, Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization, Category 1</td>
</tr>
<tr>
<td>STOT RE 1</td>
<td>Specific target organ toxicity (repeated exposure) Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>Water-react. 2</td>
<td>Substances and mixtures which in contact with water emit flammable gases Category 2</td>
</tr>
</tbody>
</table>

**Hazard Statements**

- H228 Flammable solid
- H261 In contact with water releases flammable gas
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H350 May cause cancer
- H351 Suspected of causing cancer
- H361 Suspected of damaging fertility or the unborn child
- H372 Causes damage to organs through prolonged or repeated exposure
- H400 Very toxic to aquatic life
- H402 Harmful to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H411 Toxic to aquatic life with long lasting effects
- H412 Harmful to aquatic life with long lasting effects

**NFPA Health Hazard**: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

**NFPA Fire Hazard**: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

**NFPA Reactivity Hazard**: 0 - Material that in themselves are normally stable, even under fire conditions.

**HMIS III Rating**

- **Health**: 2 Moderate Hazard - Temporary or minor injury may occur
  * Chronic - Chronic (long-term) health effects may result from repeated overexposure
- **Flammability**: 0 Minimal Hazard
- **Physical**: 0 Minimal Hazard

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)