



# ADVANCED SUPERABRASIVES®

Date: 01/05/15

Dear Valued Customer:

In compliance with Federal Hazard Communication Standard 29 CFR 1910.1200 and Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA), we enclosed revised Material Safety Data Sheets (MSDS) for Bonded Superabrasive products. The basic categories include:

**BONDED DIAMOND or CUBIC BORON NITRIDE GRINDING WHEELS**

Suppliers of materials listed in Section 313 must notify customers and distributors of these materials and the mixtures containing them.

The MSDS sheets contain complete generic information as required by the Federal Regulations. This does not mean all materials listed are present in all Bonded Superabrasive products.

The MSDS sheets attached should be forwarded to the individual responsible for plant safety. **DO NOT DETACH** this cover letter from your MSDS packet.

Sincerely,

Jonathan Szucs  
Engineering Manager  
Advanced Superabrasives Inc.

## MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

#### PRODUCT NAME

Diamond or Cubic Boron Nitride Grinding Wheels.

#### MANUFACTURER

Advanced Superabrasives Inc.  
P.O. BOX 1390  
1270 North Main St.  
Mars Hill, NC 28754  
Tell. # 828-689-3200

Revision Date  
01/02/12

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	MAX. %	CAS #
Copper(*)	85.0	7440-50-8
Graphite Powder	10.0	7782-42-5
Silver(*)	55.0	7440-22-4
Silicone Carbide	73.0	409-21-2
Aluminum Oxide	75.0	1344-28-1
Nickel(*)	60.0	7440-02-0
Molybdenum	3.0	7439-98-7
Cured Phenol Formaldehyde Resin	48.0	9003-35-4
Calcium Oxide	6.0	1305-78-8

### OTHER

(\*) This substance is regulated under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and the Canadian National Pollution Reduction Initiative (NPRI). The grinding wheel may be comprised of only some of the above.

### SECTION 3. HAZARDS IDENTIFICATION

#### INHALATION ACUTE EXPOSURE EFFECTS

Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

#### EYE CONTACT ACUTE EXPOSURE EFFECTS

Dust may irritate eyes.

#### SKIN CONTACT ACUTE EXPOSURE EFFECTS

Some may experience skin irritation from dust.

#### INGESTION ACUTE EXPOSURE EFFECTS

No known adverse effects, but ingestion not recommended

### SECTION 4. FIRST AID MEASURES

#### INHALATION

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

#### SKIN CONTACT

Wash affected areas with soap and water. Obtain medical assistance.

#### EYE CONTACT

Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

#### INGESTION

Obtain medical assistance.

### SECTION 5. FIRE FIGHTING MEASURES

#### FIRE FIGHTING PROCEDURES

N/A

#### HAZARDOUS PRODUCTS/COMBUSTION

None.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### CLEAN UP

Follow normal clean up procedures.

### SECTION 7. HANDLING AND STORAGE

#### HANDLING

Always Handle and Store wheels in a careful manner. Always Visually Inspect all wheels before mounting. Always check machine Speed against the established maximum safe operating speed Marked on the Wheel.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **VENTILATION PROTECTION**

Handle with adequate ventilation. See OSHA 29 CFR 1910.1000 (Air contaminants).

### **RESPIRATORY PROTECTION**

Respirators are required when airborne contaminants level exceeds the TLV(s).

### **EYE PROTECTION**

Always WEAR SAFETY GLASSES or some type of eye protection when grinding.

### **OTHER PROTECTION**

Use of this product may create elevated sound levels. Hearing protection should be worn where required (see OSHA 29CFR 1910.134 and other applicable regulations.)

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### **APPEARANCE AND ODOR**

Solid article. Odorless.

## SECTION 10. STABILITY AND REACTIVITY

### **INCOMPATIBLE**

N/A

### **DECOMPOSITION**

In use, dusts are generated. In most cases, the airborne material removed from the work piece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

## SECTION 11. TOXICOLOGICAL INFORMATION

### **INHALATION CHRONIC EXPOSURE EFFECTS**

Chronic: May affect breathing capacity.

### **CARCINOGENICITY**

Nickel - EPA-A, IARC-2B, NTP-2, NIOSH-X, MAK-A1; Silver - EPA-D; Copper - EPA-D;

### **LD50/LC50**

Values are not appropriate or available.

## SECTION 12. ECOLOGICAL INFORMATION

### **CHEMICAL FATE**

Resin bonded materials demonstrate similar degradation rates as Phenolic plastics.

## SECTION 13. DISPOSAL CONSIDERATIONS

### **WASTE DISPOSAL**

Use Standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

## SECTION 14. TRANSPORT INFORMATION

### **HAZARD CLASS**

This product is not hazardous as defined by the Department of Transportation. (USA) This product is "Not Regulated" under the Transportation of Dangerous Goods Act, (CAN)

## SECTION 15. REGULATORY INFORMATION

### **EXPOSURE LIMITS/REGULATORY INFORMATION**

#### SUBSTANCE DESCRIPTION

	<u>UNITS</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>MOL</u>	<u>MAK</u>
Silver(*)	MG/M3	0.0100	0.1000	0.1000	0.0100
Copper(*)	MG/M3	0.1000	0.2000	0.2000	0.1000
Graphite Powder	MG/M3	10.0000	2.0000	0.0000	6.0000
Silicon Carbide	MG/M3	10.0000	10.0000	10.0000	4.0000
Aluminum Oxide	MG/M3	10.0000	15.0000	10.0000	6.0000
Nickel(*)	MG/M3	1.0000	1.0000	1.0000	0.0000
Calcium Oxide	MG/M3	5.0000	2.0000	0.0000	5.0000
Cured Phenol					
Formaldehyde Resin	PPM	5.0000	5.0000	5.0000	5.0000
Molybdenum	MG/M3	10.0000	10.0000	10.0000	10.0000

### **OTHER**

(\*) This substance is regulated under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and the Canadian National Pollution Reduction Initiative (NPRI). The grinding wheel may be comprised of only some of the above.

### **EXPOSURE LIMIT DESCRIPTIONS**

ACGIH=Am. Conf. Govmnt. Ind. Hyg.

MOL= Ministry of Labor, CAN

MAK= FRG Max. Conc. Values

OSHA= Occ. Safety & Health Admin.

### **CA PROP 65**

This product contains chemicals, Nickel is Known to the State of California to cause cancer.

### **TSCA**

Section 8(b) - Inventory Status All Components of this product are registered under the regulations of the Toxic Substance Control Act.

### **DOMESTIC SUBSTANCE LIST**

All components of this product are found on the Domestic Substance List.

## SECTION 16. OTHER INFORMATION

### **DISCLAIMER**

The Information and recommendation set forth herein are taken from sources to be accurate as of the date hereof; however, Advanced Superabrasives Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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