

## 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  
January 19, 2001

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>SUBSTANCE DESCRIPTION</u>	<u>MAX. %</u>	<u>CAS #</u>
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**

<b><u>SUBSTANCE DESCRIPTION</u></b>	<b><u>UNITS</u></b>	<b><u>OSHA</u></b>	<b><u>ACGIH</u></b>	<b><u>MOL</u></b>	<b><u>MAK</u></b>
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

## **SECTION 15. REGULATORY INFORMATION (CONTINUED)**

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

<b><u>SUBSTANCE DESCRIPTION</u></b>	<b><u>UNITS</u></b>	<b><u>OSHA</u></b>	<b><u>ACGIH</u></b>	<b><u>MOL</u></b>	<b><u>MAK</u></b>
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.