

Material Safety Data Sheet

CBN-614

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200.

GOODSON

Tools and Supplies for Engine Builders
156 Galewski Drive • P.O. Box 847 • Winona, MN 55987-0847
Toll-Free 1-800-533-8010 • Local 507-452-1830 • www.goodson.com

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1. IDENTIFICATION

Part No. and Description: CBN-614 Cubic Boron Nitride Grinding Wheel

Emergency Phone: 800-688-4005 (24 hours)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Percent</u>	<u>CAS No.</u>
Aluminum Oxide, Non-Fibrous	5.000-10.000	1344-28-1
Aluminum	60.000-90.000	7429-90-5
Cubic Boron Nitride	1.000-5.000	10043-11-5
Cobalt (*)	1.000-5.000	7440-48-4
Copper (*)	1.000-10.000	7440-50-8
Cured PhenolFormaldehyde Resin	1.000-5.000	9003-35-4
Diamond	1.000-5.000	7782-40-3
Graphite Powder	15.000-20.000	7782-42-5
Iron	70.000-80.000	7439-89-6
Maganese (*)	3.000	7439-96-5
Molybdenum	1.000	7439-98-7
Nickel (*)	1.000-10.000	7440-02-0
Phosphorus-yellow (*)	1.000	7723-14-0
Amorphous Silica, Fused	1.000-5.000	60676-86-0
^Crystalline Silica, Quartz	1.000	14808-60-7
Silicon	5.000	7440-21-3
Silicon Carbide	1.000-10.000	409-21-2
Silver (*)	1.000-5.000	7440-22-4
Tin	1.000-5.000	7440-31-5
Tungsten Carbide	1.000-5.000	12070-12-1

^ Tests with products know to contain Crystalline Silica did not produce any detectable amount of respirable free Crystalline Silica. The product may be comprised of only some of the above.

* 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 OSHA exposure limit represented in section 15 is for respirable dust and assumed to be worst case exposure to 100% crystalline silica; 10mg/m³/(%silica+2).

3. HAZARDS IDENTIFICATION

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

Effects of Overexposure - Eye Contact: Dust may irritate eyes.

Effects of Overexposure - Skin Contact: Some may experience skin irritation from dust.

Effects of Overexposure - Inhalation: May affect breathing capacity. For products containing phenol/formaldehyde resin, dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction. For products containing inorganic fluorides have been shown to increase bone density.

Effects of Overexposure - Ingestion: No known adverse effects, but ingestion not recommended.

4. FIRST AID MEASURES

First Aid - Eye Contact: Wash with large amounts of water. Obtain first aid and medical assistance if needed.

First Aid - Skin Contact: Wash affected areas with soap and water. Obtain medical assistance.

First Aid - Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

First Aid - Ingestion: Obtain medical assistance.

5. FIRE FIGHTING MEASURES

Special Firefighting Procedures: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Follow normal clean up procedures.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Protection: Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and 29 CFR 1910.1000 (Air contaminants).

Respiratory Protection: Respirators are required when airborne contaminant levels exceed 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 29 CFR 1910.134 and other applicable regulations).

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Odorless

Appearance: Solid

10. STABILITY AND REACTIVITY

Incompatibility: Not Applicable

Decomposition: In use, dusts and decomposing odors may be generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products. For products containing phenol and formaldehyde resin, thermal decomposition may produce trace amounts of phenol and formaldehyde. For products containing inorganic fluorides, thermal decomposition may produce trace amounts of fluorides.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: Nickel-EPA-A, IARC-2B, NIOSH-A, MAK-1; Cobalt-IARC-2B, MAK-2; Crystalline Silica (Quartz)-IARC-2A, NIOSH-X, NTP-R; Silver-EPA-D; Phosphorous Yellow-EPA-D; Copper-EPA-D; Manganese-EPA-D. LD50/LC50 values are not appropriate or available.

12. ECOLOGICAL INFORMATION

Chemical Fate: Vitrified products do not appreciably decay. Resin bonded materials demonstrate similar degradation rates as Phenolic plastics. Metal bonded products do not appreciably decay.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

14. TRANSPORTATION 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).

15. REGULATORY INFORMATION

<u>Chemical Name</u>	<u>Units</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>MOL</u>
Aluminum Oxide, Non-Fibrous	MG/M3	15.0000	10.0000	10.0000
Aluminum	MG/M3	15.0000	0.0000	0.0000
Cubic Boron Nitride	MG/M3	10.0000	10.0000	10.0000
Cobalt (*)	MG/M3	1.0500	0.0200	0.1000
Copper (*)	MG/M3	0.1000	0.2000	0.2000
Cured PhenolFormaldehyde Resin	PPM	0.0000	0.0000	0.0000
Diamond	PPM	0.0000	0.0000	0.0000
Graphite Powder	MG/M3	10.0000	2.0000	0.0000
Iron	MG/M3	1.0000	1.0000	1.0000
Manganese (*)	MG/M3	1.0000	1.0000	1.0000
Molybdenum	MG/M3	10.0000	10.0000	10.0000
Nickel (*)	MG/M3	1.0000	1.0000	1.0000
Phosphorus-yellow (*)	MG/M3	0.1000	0.1000	0.1000
Amorphous Silica, Fused	MG/M3	0.1000	0.1000	0.0000
^Crystalline Silica, Quartz	MG/M3	0.1000	0.1000	0.0000
Silicon	MG/M3	10.0000	10.0000	0.0000
Silicon Carbide	MG/M3	10.0000	10.0000	10.0000

Silver (*)	MG/M3	0.0100	0.1000	0.1000
Tin	MG/M3	2.0000	2.0000	2.0000
Tungsten Carbide	MG/M3	0.0000	0.0000	0.0000

Exposure Limit Descriptions:

CA PROP 65: This product is considered an accessory to power tools by the State of California and therefore does not require labeling under Proposition 65.

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.

16. OTHER INFORMATION

Disclaimer: The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, the company 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.