

Material Safety Data Sheet

Vitrified Bond Abrasive

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



GOODTOOL

Automotive Service Tooling and Supplies

Airport Industrial Park • P.O. Box 70 • Wihong, MN 55987-0070
1-800-880-7121 • Local 507-454-1454 • Fax 507-454-1471

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1. IDENTIFICATION

Description: Vitrified Bond Abrasive

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>Percent</u>	<u>CAS #</u>
Aluminum Oxide	90.000-85.000	1344-28-1
Cobalt Aluminate(*)	0.090-0.500	1333-88-6
Amorphous Silica, Fused	10.000-30.000	60676-86-0
Silicon Carbide	90.000-95.000	409-21-2
Sulfur	15.000-40.000	7704-34-9

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.

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.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Skin Contact: Wash affected area with soap and water. Obtain medical assistance.
Eye Contact: Wash with large amounts of water. Obtain first aid and medical assistance, if needed.
Ingestion: Call poison control center, hospital emergency room or physician immediately.

5. FIRE FIGHTING MEASURES

Firefighting Procedures: Not applicable

Hazardous Products / Combustion: None

6. ACCIDENTAL RELEASE PROCEDURES

Clean-up: Follow normal clean up procedures.

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. Always CHECK MOUNTING FLANGES for equal and correct diameter. Always USE MOUNTING BLOTTERS. Always be sure WORK REST is properly adjusted. Always USE A SAFETY GUARD covering at least one-half of the grinding wheel. Always allow NEWLY MOUNTED WHEELS to run at operating speed, with guard in place, for at least one minute before grinding. Always TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance 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

Appearance & Odor: Solid article, orderless

10. STABILITY AND REACTIVITY

Incompatibilities: Avoid acids of all types with a pH<4.0.

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

11. TOXICOLOGICAL INFORMATION

Inhalation Chronic Exposure Effects: May affect breathing capacity.

Carcinogenicity: Silica, Amorphous, Fused - IARC-3, NIOSH-X

LD50 / LC50: Values are not appropriate or available.

12. ECOLOGICAL INFORMATION

Chemical Fate: Vitriified products do not appreciably decay.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws. Products with listed flourides may have slightly soluble fluoride swarf.

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).

15. REGULATORY INFORMATION

EXPOSURE LIMITS / REGULATORY INFORMATION

<u>Substance Description</u>	<u>Units</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>MOL</u>	<u>MAK</u>
Aluminum Oxide	mg/m3	15.0000	10.0000	10.0000	6.0000
Cobalt Aluminate (*)	mg/m3	0.0500	0.0200		
Amorphous Silica, Fused	mg/m3	0.1000	0.1000		0.3000
Silicon Carbide	mg/m3	10.000	10.000	10.0000	4.0000
Sulfur	mg/m3				

Exposure Limit Descriptions: ACGIH - Am. Conf. Govmnt. Ind. Hyg. MAK - FRG Max. Conc. Values
MOL - Ministry of Labor, CAN OSHA - Occ. Safety & Health Admin.

CA Prop 65: Not applicable

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.

15. REGULATORY INFORMATION

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