

Material Safety Data Sheet

Resin Bonded Abrasive

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



GOODTOOL

Automotive Service Tooling and Supplies

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DATE OF PREPARATION: March 5, 1998

1. IDENTIFICATION

Part No.: Resin Bonded Abrasive Products
Description: Resin Bonded Abrasive Products
NFPA (Rating): NA
NFPA Fire Fighting: NA
Personal Protection Code: NA

2. HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>< Wt. %</u>	<u>TLV-TWA</u>	<u>STEL</u>	<u>LD50/LC50</u>
Aluminum Oxide	1344-28-1	40.000-90.000	NA	NA	Not available
Calcium Oxide	1305-78-8	1.000-5.000	NA	NA	Not available
Cured Phenol Formaldehyde Resin	9003-35-4	3.000-12.000	NA	NA	Not available
Fiberglass	65997-17-3	0.003-10.000	NA	NA	Not available
Flurides**	NA	2.000-10.000	NA	NA	Not available
@Crystalline Silica, Quartz	14808-60-7	0.001-1.000	NA	NA	Not available
Sulfates & Sulfides**	NA	1.000-10.000	NA	NA	Not available
Zirconium Oxide	1314-23-4	30.000-50.000	NA	NA	Not available

** substance is a compound or mixture

OTHER: (@) Actual grinding testst with wheel known to contain Crystalline Silica did not produce any detectable amount of respirable free Crystalline Silica. The grinding wheel may be comprised of only some of the above.

3. HEALTH HAZARDS

Ingestion: No known adverse affects.
Inhalation: Dust may be slightly irritating to eyes and respiratory tract at high concentrations.
Eyes: Dust may irritate eyes.
Skin: Some may experience skin irritation from dust.
Medical conditions that may be aggravated by exposure: NA

4. FIRST AID

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

5. FIRE HAZARD

Flash Point: None
Flammable limits in air: None
Extinguishing Media: Not applicable
Special Firefighting Procedures: Not applicable
Hazardous Combustion Products: None
Unusual Fire Hazards: None

6. ACCIDENTAL SPILL PROCEDURES

Clean Up: 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. 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 PROPERTIES

- | | | | |
|-------------------------------|--------------------------|--------------------------|----|
| Initial Boiling Point: | NA | Vapor Pressure: | NA |
| Percent Volatile: | NA | Vapor Density: | NA |
| Density / sp. gravity: | NA | Evaporation Rate: | NA |
| Water Solubility: | NA | pH: | NA |
| Appearance & Odor: | Solid Article. Odorless. | | |

10. STABILITY & REACTIVITY

- Stability:** NA
- Incompatibility:** Avoid acids of all types with a pH < 4.0
- Hazardous Decomposition Products:** In use, dust is generated. Decomposition products, such as trace amounts of phenol and/or formaldehyde, may be generated. Coolants may produce other decomposition products.
- Reactivity:** NA

11. TOXICOLOGICAL INFORMATION

- Inhalation Chronic Exposure Effects:** Chronic – may affect breathing capacity.
- Carcinogenicity:** Fiberglass contained in wheels have fiber diameters greater than 10um, therefore considered non-respirable. Crystalline Silica, Quartz – LARC-2A, NIOSH-X, NTP-2
- Threshold Limit Value:** NA
- WHMIS information (CANADA):** NA

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL

- Waste Disposal:** Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws. Products with listed fluorides may have slightly soluble fluoride sludge.
- Norton Recycling Program:** Norton Company has developed a grinding wheel recycling program. If you are interested in returning your stubs, information can be obtained by calling (508) 795-5000.

14. TRANSPORTATION

Hazard Class or Division: 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>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
Calcium Oxide	MG/M3	5.0000	2.0000		5.0000
Cured Phenol Formaldehyde Resin	PPM				
Fiberglass	FBR/CC	1.0000			
Fluorides**	MG/M3	2.5000	2.5000	2.5000	2.5000
@Crystalline Silica, Quartz	MG/M3	0.1000	0.1000		0.1500
Sulfates & Sulfides**	MG/M3	10.0000	10.0000	10.0000	4.0000
Zirconium Oxide	MG/M3	5.0000	5.0000	5.0000	5.0000

- Exposure Limit Descriptions:**
- | | | | |
|-----------|--|------|-------------------------------------|
| ACGIH | Am Conf. Govmnt. Ind. Hyg. | MAK | FRG Max. Conc. Values |
| MOL | Ministry of Labor, CAN | OSHA | Occ. Safety & Health Administration |
| CAPROP 65 | Contains Crystalline Silica, 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. | | |

NOTE: 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, Goodson 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.