

Safety Data Sheet

Vitrified Abrasives

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

Preparation: September 8, 2000
Revision / Review: Jan 2019

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Vitrified Bonded Abrasive Products

Trade Name: Alundum, Crystolon, Seeded Gel

Manufacturer: Saint-Gobain Abrasives, Inc.

One New Bond Street

Worcester, MA 01606

508-795-5000

Distributor: Goodson Tools and Supplies

156 Galewski Drive

Winona, MN 55987

507-452-1830 or 800-533-8010

Emergency Phone: 800-924-6804 (24 hours)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Substance Description</u>	<u>Percent</u>	<u>CAS#</u>
Aluminum Oxide, Non-fibrous	30.000 - 95.000	1344-28-1
Chrome oxide (*)	1.000 - 2.000	1308-38-9
Cobalt Aluminate (*)	0.100 - 2.000	1345-16-0
Amorphous Silica, Fused	2.000 - 30.000	60676-86-0
Silicon Carbide	30.000 - 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.

Inhalation Chronic Exposure Effects: May affect breathing capacity. For products containing Amorphous Silica, Fused, there is limited evidence in animals that excessive and prolonged exposure to this chemical may cause pulmonary fibrosis. The chrome and Cobalt are fused into the glass matrix and are expected to pose little risk.

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 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: Call poison control center, hospital emergency room or physician immediately.

5. FIRE FIGHTING MEASURES

Fire Fighting Procedures: Not Applicable

Hazardous Products/Combustion: None

HAZARD RATING SOURCE: NFPA

Health: 1

Flammability: 0

Reactivity: 0

Other:

6. ACCIDENTAL RELEASE MEASURES

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. Odorless.

10. STABILITY & REACTIVITY

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

Decomposition: In use, dusts and decomposing odors may be generated. In most cases, the material removed from the work piece 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: Silica, Amorphous, Fused - IARC-3, NIOSH-X

Cobalt-IARC 2B, Chrome (III) - IARC-3

LD50/LC50

Values are not appropriate or available.

12. ECOLOGICAL INFORMATION

Chemical Fate: Vitrified 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 fluorides 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>
Aluminum Oxide, Non-fibrous	MG/M3	15.0000	10.0000	10.0000
Chrome oxide (*)		0.0000	0.0000	0.0000
Cobalt Aluminate(*)	MG/M3	0.0500	0.0200	0.0000
Amorphous Silica, Fused	MG/M3	0.1000	0.1000	0.0000
Silicon Carbide	MG/M3	10.0000	10.0000	10.0000
Sulfur	MG/M3	0.0000	0.0000	0.0000

EXPOSURE LIMIT DESCRIPTIONS

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.

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.

KEY TO ABBREVIATIONS:

EQ = Equal

LT = Less Than

GT = Greater Than

AP = Approximately

TR = TRace

ND = No Data available