



SAFETY DATA SHEETS (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **BONDED ABRASIVE PRODUCTS**
 Grinding and Cutting Wheels: (Type 1, Type 27, Type 28, Type 29)
 Cup Wheels (Type 11)
 Plugs & Cones: (Type 16, 17, 18R)
 Mounted Point Wheels
 Bench Grinding Wheels

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SECTION 2 - HAZARDS IDENTIFICATION

Inhalation, Acute: Dust Inhalation may cause coughing, shortness of breath or irritation.
 Inhalation, Chronic: Dust Inhalation may affect breathing capacity.
 Ingestion: No known adverse effects, but ingestion not recommended.
 Skin: Not absorbed through skin. Dust may cause irritation/rash to some.
 Eye: Dust may irritate eyes.
 Other Potential Risks: Grinding may create elevated sound levels, which may affect hearing and may aggravate pre-existing respiratory condition.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	INGREDIENTS & CHEMICAL IDENTITY (COMMON NAME):	CAS #	%
1	* Aluminum Oxide (Alumina)	1344-28-1	0% - 95%
2	* Silicon Carbide (Crysolon)	409-21-2	0% - 90%
3	* Phenol Formaldehyde (Phenolic Resin)	Non-established	1% - 30%
4	* Sodium Fluoroaluminate (Cryolite)	15096-52-3	0% - 20%
5	* Fiborous Glass (Fiberglass)	N/A	0% - 20%
6	* Zirconium Oxide	1314-23-4	0%-80%
7	* Iron Pyrite	12068-85-8	0%-20%
8	* Sulfur	7704-34-9	0%-15%
9	* Calcium Oxide	1305-78-8	0% - 10%
10	* Iron Oxide	1309-37-1	0%-5%
11	* Graphite	7782-42-5	0%-5%
12	* Potassium Fluoroborate	14075-53-7	0%-5%

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with water for at least 15 to 20 minutes. Make sure the dust is completely washed off. Get medical attention, if irritation symptoms develop or persist.
Skin Contact:	Wash skin with soap and rinse plenty of water. Get medical attention if irritation symptoms develop or persist.
Inhalation:	Remove affected person to fresh air. Apply artificial respiration if necessary. Seek medical assistant if affected person is still having trouble breathing.
Ingestion:	If accidentally ingested, contact physician for medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Property:	Non-flammable
Flash Point:	N/A
Flammable limit:	N/A
LEL:	N/A
UEL:	N/A
Extinguishing Media:	Extinguisher and Water

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Step to be taken in case of leaks or spills:	Ventilate area. Normal clean-up procedures. Avoid creating dusty conditions.
Waste disposal method:	Dispose-of in a secured sanitary landfill consistent with applicable Federal, State and Local Laws and Regulations

SECTION 7 - HANDLING AND STORAGE

Handling:	Handle with adequate ventilation (See OSHA 29CFR 1910.94 Ventilation) and 29CFR 1910.1000 (Air Contaminates)
Storage:	Store in dry area, away from heat source. Ideal storage temperature 65-70°F (18-24°C), 50-60% RM
General Hygiene Practices:	Wear proper gloves, eye and face protection.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

	HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
1	* Aluminum Oxide (Alumina)	5mg/m3 respirable fraction, 15mg/m3 total dust	1mg/m3 respirable fraction
2	* Silicon Carbide (Crytolon)	Non-established	10 mg/m3 inhalable fraction, 3mg/m3 respirable fraction
3	* Phenol Formaldehyde (Phenolic Resin)	Non-established	Non-established
4	* Sodium Fluoaluminate (Cryolite)	2.5 mg/m3	2.5 mg/m3
5	* Fiborous Glass (Fiberglass)	15mg/m3 total dust, 5mg/m3 respirable fraction	10mg/cu.m total dust, 5mg/m3 respirable fraction
6	* Zirconium Oxide	5mg/m3	5mg/m3 10mg/m3 Stel
7	* Iron Pyrite	Non-established	Non-established
8	* Sulfur	Non-established	Non-established
9	* Calcium Oxide	5mg/m3	2mg/m3
10	* Iron Oxide	10mg/m3	5mg/m3 respirable fraction
11	* Graphite	15mppcf	2mg/m3 respirable fraction
12	* Potassium Flouoroborate	2.5mg/m3	2.5mg/m3

Respiratory Protection: Specify Type, as needed. For Approved Dust Respirators, See OSHA 29CFR 1910.134

Eye and Face Protection: Always wear safety glasses. Recommended - See OSHA 29 CFR 1910.133 and ANSI Z87.1

Hearing Protection: Hearing Protection as needed. OSHA 29CFR 1910.95

Skin and Hand Protection: Wear glove and Lab coat.

Local Exhaust : Required to keep dust levels below permissible exposure limits.

Mechanical: Required to keep dust levels below permissible exposure limits.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical Sate Appearance:	Solid	Melting Point: N/A
Flammability:	Non-flamable	Solubility: non-soluble
Ordor:	Odorless	Initial Boining Point: N/A
Vapor Pressure:	N/A	Flash Point: N/A
Vapor desity:	N/A	Evaporation Rate: N/A
pH:	N/A	Auto-ignition temperature: Not determimed
Relative density:	N/A	Decomposition Tempurature & viscosity: N/A

SECTION 10 - STABILITY and REACTIVITY

Hazardous Polymerization:	Hazardous polymerization does not occur under normal condition and usage.
Stability:	Stable under normal condition.
Condition to avoid:	Unspecified.
Hazarous decompositon:	Dust from grinding could contain ingredients listed in seciton 3 and other, potentially more hazardous components of the base material being ground or coatings applied to the base material.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:	This product has not been tested for its toxicity.
Ingestion:	If accidentally ingested, contact physician for medical attention.
Inhalation:	Dust inhalation may cause coughing, shortness of breath or irritation.
Skin:	Not absorbed through skin. Dust may cause irritation/rash to some.
Eye:	Dust may irritate eyes.
Other Potential Risks:	Grinding may create elevated sound levels, which may affect hearing and may aggravate pre-existing respiratory condition.
Carcinogenicity:	Silica, Amorphous, Fused - IARC-3, NIOSE-X LD50/LC50 Values are not appropriate or available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental effects:	No known significant effects or hazards.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Dispose-of in a secured sanitary landfill consistent with applicable Federal, State and Local Laws and Regulations.
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SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Not regulated as hazadous material for transportation.
DOT UN Number:	Not regulated as hazadous material for transportation.
Transport hazard class:	None
Packing Group Number:	None
Environmental Hazard:	Not regulated as hazadous material for transportation.
label Required:	None

SECTION 15 - REGULATORY INFORMATION

HCS Classification: This product is Exempted from the regulatory requirement HCS

U.S. Federal Regulations: **SARA 311/312 Hazardous Substances:** Not Applicable

EPA TSCA Inventory: All of the ingrediennts are listed

California Proposition 65: WARNING: Dust generated from cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal when using this product offen contains chemicals known to cause cancer, birth defects, or other reproductive harm.

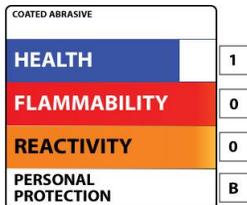
Canadian WHMIS Classification: Not a controlled product.
This product meets the definition of a "manufactured article" under the WHMIS regulations.

Canadian CEPA: None toxic substances. All of the ingredients are listed on the Canadian DSL.

SECTION 16 - OTHER INFORMATION

Label Requirement: Not controlled under O.S.H.A and under W.H.M.S. when used according to Industry safety standard.

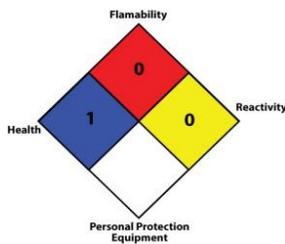
Hazardous Material Information System (USA)



Hazard Ratings

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

National Fire Protection Association



References: ANSI B7.1 and O.S.H.A regulations

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Prepared By: Griton Industries, Inc.

Notice to reader

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