



SAFETY DATA SHEET

Section 1: Chemical Product and Company Information

Product Name **Resin Bonded Abrasive Products**
Trade Name Grinding Wheels or Stones (Type1, Type27, Type28, Type29)
Cup Wheels (Type11)
Cones and Plugs (Type16, Type17 and Type18)

Manufacturer Calumet Abrasives Co., Inc.
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Effective Date May 14, 2015

Section 2: Hazards Identification

Emergency Overview: Dust may be irritating. May cause delayed lung damage. Low hazard to usual industrial or commercial handling.

Target Organs: Respiratory System

Inhalation: Grinding generates dust. Prolonged exposure to grinding dust may cause respiratory problems or aggravate existing conditions. Inhalation during grinding can cause coughing and shortness of breath. Consideration should also be given to the airborne concentration of the material being ground.

Eye Contact: Dust generated during grinding may irritate eyes.

Skin Contact: Excessive contact with dust may cause irritation.

Ingestion: No known effects, but ingestion is not recommended.

Other: Some grinding operations may cause noise or vibration irritation. Grinding wheels are not a known carcinogen.

HMIS Hazard Rating

Health	0
Flammability	0
Reactivity	0
Personal Protection	E



Section 3: Composition / Information on Ingredients

May contain the following ingredients

Chemical Name	CAS#	ACGIH TLV	OSHA PEL	NIOSH	Carc. Y/N	Max. %
Aluminum Oxide	1344-28-1	10mg/m ³	15mg/m ³	NA	N	95
Silicon Carbide	409-21-2	10mg/m ³	15mg/m ³	10mg/m ³	N	95
Zirconium Oxide	NA	5mg/m ³	5mg/m ³	5mg/m ³	N	50
Cured Phenolic Resin	NA	NA	NA	NA	N	20
Calcium Oxide	1305-78-8	2mg/m ³	5mg/m ³	2mg/m ³	N	2.8
Fibrous Glass	NA	10mg/m ³	15mg/m ³	5mg/m ³	N	16
Iron Pyrites	12068-85-8	NA	NA	NA	N	33.2
Cured Rubber	78-79-5	NA	NA	NA	N	2.6
Kyanite	1302-76-7	NA	NA	NA	N	22.7
Black Beauty	68476-96-0	10mg/m ³	15mg/m ³	NA	N	9.1
Potassium Fluoborate	14075-53-7	2.5mg/m ³	2.5mg/m ³	NA	N	2.5
Graphite	7782-42-5	2mg/m ³	15mg/m ³	2.5mg/m ³	N	1.2
Wollastonite	13983-17-0	10mg/m ³	15mg/m ³	10mg/m ³	N	1.5
Feldspar	68476-25-5	10mg/m ³	5mg/m ³	NA	N	1.1
Fluorspar	7789-75-5	2.5mg/m ³	15mg/cf	NA	N	2.5
Barium Sulfate	7727-43-7	10mg/m ³	15mg/m ³	10mg/m ³	N	5.1
Calcium Carbonate	471-34-1	10mg/m ³	15mg/m ³	10mg/m ³	N	5.6
Pyrophyllite	12269-78-2	NA	15mg/m ³	NA	N	1.1
Sulfur	7704-34-9	NA	NA	NA	N	1.3
Cryolite	15096-52-3	2.5mg/m ³	2.5mg/m ³	2.5mg/m ³	N	7.9
Potassium Sulfate	7778-80-5	10mg/m ³	15mg/m ³	NA	N	7.2

Section 4: First Aid Measures

Eyes:	Flush eyes thoroughly with water, holding open eye lids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.
Skin:	Wash skin with soap and water. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Inhalation:	If over exposed to grinding dust, remove victim to fresh air and get medical attention.
Ingestion:	If grinding dust is swallowed, seek medical attention.
Other:	If hearing problems persist, obtain medical assistance if necessary.



Section 5: Fire Fighting Measures

Flash Point:	None
Flammable Limits:	None
Extinguishing Media:	Any media appropriate for the surrounding fire.
Fire Fighting Equipment:	Fire fighters should wear goggles and self – contained breathing apparatus to avoid inhalation of smoke or vapors.
Fire and Explosion Hazards:	None from this product. Consideration must be given to the potential fire/explosion hazards from the material being processed. Many materials create flammable/explosive dusts.

Section 6: Accidental Release Measures

Clean up:	Use normal cleanup procedures.
Disposal:	Dispose of in accordance with local, state and federal regulations.

Section 7: Handling and Storage

Handling:	Do not use at speeds greater than product was made to be used. Inspect wheel for damage on arrival and prior to mounting on machine. Avoid breathing dust. Avoid skin and eye contact with grinding dust. Use in well-ventilated area.
Storage:	Wheels should not be exposed to water or other solvents; any temperature or humidity condition that causes condensation on the wheels or freezing temperatures. See ANSI B7.1,2,3.

Section 8: Exposure Controls / Personal Protections

Respiratory Protection:	Use NIOSH approved respirators as required to maintain exposure below Threshold Limit Values (TLV/TWA). See OSHA
Skin Protection:	Leather, cloth, rubber or vinyl gloves as desired by user. Protective clothing as needed.
Eye Protection:	Safety goggles or safety glasses with side shields are recommended. See OSHA 29CFR 1910.133.
Hearing Protection:	See OSHA 29CFR 1910.95 concerning hearing protection.
Engineering Controls:	Local exhaust ventilation as necessary to keep dust levels below Threshold Limit Values (TLV/TWA).
Other Precautions:	Visually inspect all wheels before mounting for possible damage. Do not operate above maximum operating speed. Always use a guard. Refer to ANSI B7.1 for the "Safety Requirements for the Use, Care and Protection of Abrasive Wheels."



Section 9: Physical and Chemical Properties

Boiling Point:	NA
Vapor Pressure:	NA
Vapor Density:	NA
Specific Gravity:	NA
Solubility in Water:	Insoluble
Freezing Point:	NA
Melting Point:	NA
pH:	Not relevant
Appearance:	Black, brown or reddish colored solid wheel.
Flash Point:	Non-Combustible
Odor:	None

Section 10: Stability and Reactivity

Stability (Conditions to Avoid):	This is a stable material.
Incompatibility (Specific Materials to Avoid):	Avoid strong acids and bases.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition:	Dust from grinding could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being ground or coatings applied to the base material.
Stability (Conditions to Avoid):	This is a stable material.

Section 11: Toxicological Information

Ingestion:	None expected under normal use conditions.
Inhalation:	Dust may cause respiratory irritation.
Eye:	Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes.
Skin:	None expected under normal use conditions.
Chronic:	Long-term over exposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust / fumes from the material or paint / coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated.
Acute Toxicity:	This product and its components are not acutely toxic.



Section 12: Ecological Information

No ecological data is available for this product. No hazards to the environment are expected from this product. However, consideration must be given to potential environment effects of the base material being processed.

Section 13: Disposal Considerations

Dispose in accordance with all applicable local, state / provincial and federal regulations. Local regulations may be more stringent than regional and national requirements.

Section 14: Transport Information

Grinding wheels are not a DOT hazardous material.

Section 15: Regulatory Information

This product does not contain and was not manufactured with any Ozone Depleting Chemicals. This product is not subject to SARA 313 reporting.

Section 16: Other Information

The information and recommendations set forth are taken from sources believed to be accurate. Calumet Abrasives Co., Inc. makes no warranty with respect to the accuracy of this information or the suitability of these recommendations, assumes no liability to any user thereof. It is the responsibility of the user to investigate and understand pertinent sources of information to comply with all laws and procedures applicable to the safe use and handling of the product and to determine the suitability of the product for its intended use.
