

MATERIAL SAFETY DATA SHEET

Company Identification

Jowitt & Rodgers, Co.
 9400 State Road
 Philadelphia, PA 19114
 215-824-0400 (For questions and emergencies)
 800-424-9300 (CHEMTREC)

1. Chemical Product and Company Identification

Product Name: Grinding Wheels - Resin Bond

2. Composition, Information on Ingredients

<u>Chemical Name</u>	<u>Percentage</u>	<u>CAS Number</u>	<u>Exposure Limits</u>	
			<u>OSHA-PEL</u>	<u>ACGIH-PEL</u>
Aluminum Oxide, Non-fibrous	0 – 98	1344 – 28 – 1	5 mg/m ³	10 mg/m ³
Silicon Carbide	0 – 98	409 – 21 – 2	5 mg/m ³	10 mg/m ³
Zirconium Dioxide	0 – 30	1314 – 23 – 4	5 mg/m ³	5 mg/m ³
Limestone	0 – 25	1317 – 65 – 3	15 mg/m ³	10 mg/m ³
Phenol, Formaldehyde Polymer	2 – 12	9003 – 35 – 4	None	None
Aluminum Silicate	0 – 10	66402 – 68 – 4	10 mg/m ³	10 mg/m ³
Cryolite	0 – 10	15096 – 52 – 3	2.5 mg/m ³	10 mg/m ³
Titanium Dioxide	0 – 4	13463 – 67 – 7	15 mg/m ³	10 mg/m ³
Cured Epoxy Resin	0 – 4	Trade Secret	None	None
Chromic Oxide	0 – 2	1308 – 38 - 9	0.5 mg/m ³	0.5 mg/m ³
Synthetic Graphite	0 – 4	7782 – 42 – 5	15 mg/m ³	None

3. Hazards Identification

Primary Routes of Entry:

Skin Contact	Yes
Eye Contact	Yes
Ingestion	Yes
Inhalation	Yes
Injection	No

Toxicity:

Signs & Symptoms of Exposure

Eyes:	Acute exposure effects. Dust may irritate eyes.
Skin:	Acute exposure effects. Some may experience skin irritation from dust.
Ingestion:	Acute exposure effects - No known adverse effects, however ingestion should be avoided



Inhalation:

Chronic exposure effects - May affect breathing capacity. Dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction.
 Acute exposure effects - Dust may be slightly irritating to eyes and respiratory tract at high concentration.
 May aggravate existing respiratory problems.

Existing Conditions

4. First Aid Information

Eyes:

Wash with large amounts of water. At least 15 minutes. Obtain medical assistance, if needed.

Skin:

Wash affected area with soap and water. Obtain medical assistance, if needed.

Ingestion:

Contact poison control center, hospital or physician immediately.

Inhalation:

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

5. Fire Fighting Measures

Flash Point

Not Applicable

Upper Explosive Limit (UEL)

Not Applicable

Lower Explosive Limit (LEL)

Not Applicable

Extinguishing Media

Water, CO₂

Special Firefighting Procedures

None

Unusual Fire and Explosion Hazards

None

Combustion Decomposition

None

Auto-ignition Temperature

Not Applicable

Explosion Data

None

6. Accidental Release Measures

Steps to be taken in event of spill or leak

Follow normal clean-up procedures.

7. Handling and Storage

Safe Handling and Storage practices must follow ANSI B7.1 – Safety Requirements for the Use, Care and Protection of Abrasive Wheels.

8. Exposure Controls / Personal Protection

Ventilation Procedures:

Handle with adequate ventilation. (Refer to OSHA 29 CFR 1910.94 and 29 CFR 1910.1000).

Eye Protection:

Always wear SAFETY GLASSES OR SHIELDS when grinding.



Respiratory Protection

Respirators are required when airborne concentration levels exceed the TLV(s), Hearing Protection should be worn where required. (Refer to OSHA 29 CFR 1910.95) Use Gloves as required.

Hearing Protection

Hand Protection

9. Physical and Chemical Properties

Vapor Pressure

Not Applicable

PH

Not Applicable

Specific Gravity (H₂O = 1)

> 1

Water Solubility

Insoluble to Slight

Percent Volatile

Not Applicable

Vapor Density (Air = 1)

Not Applicable

Evaporation Rate

Not Applicable

Odor

Odorless

Appearance

Solid, Color Varies

Viscosity

Not Applicable

Boiling Point

Not Applicable

Freezing Point

Not Applicable

10. Stability and Reactivity

Stability:

Stable

Incompatibility

Avoid acids and alkalis of all types.

Hazardous Decomposition

Dust and decomposing odors may be generated during use from the wheel, the material being ground and/or the coolant.

11. Toxicological Information

None

12. Ecological Information

Chemical Fate

Resin bonded materials demonstrate similar degradation rates as Phenolic plastics.

Environmental Fate:

None

13. Disposal Considerations

Waste Disposal

Use standard landfill methods consistent with applicable Federal, State, and Local laws.

14. Transportation Information

U.S. DOT:

Not Regulated

Shipping Description

Not Applicable

ID Number

None

Hazard Class

None

Packing Group

None

Label

None

Markings

None

Placards

None



IMDG Code Shipping	Not Regulated
Description	Not Applicable
Technical Name	None
ID Number	None
Hazard Class	None
Packing Group	None
Markings	None
Label	None
Placards	None
IMDG PG	None

15. Regulatory Information

U.S. TSCA Inventory:	All components of this product are registered under the regulations of the Toxic Substance Control Act.
SARA Extremely Hazardous Substance	Not regulated.
SARA Section 313	Not regulated
CERCLA Hazardous Substances	Not regulated.
EEC EINECS	Not regulated
Canada	Not Regulated under the Transportation of Dangerous Goods Act (Canada).

16. Other Information

NFPA Code	Health: 1	Flammability: 0	Reactivity: 0
HMIS Code	Health: 1	Flammability: 0	Reactivity: 0

Precautionary Labels None

General This MSDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act Regulations. While Jowitt & Rodgers Co. believe that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data is not to be taken as a warranty or representation for which Jowitt & Rodgers Co. assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of this date and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

Contact Persons: Patrick J. Collier