



# Material Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard 29 CFR 1910.1200.

This standard must be consulted for specific requirements

IDENTITY (As used on label and list)

**Grinding Wheels (Vitrified Bonded Abrasive Product)**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**49-92-0200, 49-92-0250, 49-92-0500, 49-92-0510, 49-93-5250, 49-93-5260, 49-93-5270, 49-93-5280**

## Section I

Manufacturer's Name Milwaukee Electric Tool Corporation	Emergency Telephone Number 1-800-424-9300
Address (Number, Street) 13135 West Lisbon Road	Contact Telephone Number for Technical Information 262-781-3600 or 1-800-729-3878 (1-800-SAWDUST)
(City, State, and Zip Code) Brookfield, Wisconsin 53005	Date Prepared September, 2004

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components [Specific Chemical Identity, Common name (s)]

Ingredient	% by Weight	OSHA Reg. Y/N	CAS #	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
<b>ABRASIVE:</b>							
Aluminum Oxide - Alpha Alumina	40-85	Y	1344-28-1	15mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		N
Cryolite-Sodium Aluminum Fluoride	1-15	Y	15096-52-3	2.5mg/m <sup>3</sup>	2.5mg/m <sup>3</sup>		N
Almandite - Ferric Aluminum Silicate	0-15	Y	1302-62-1	10 mg/m <sup>3</sup>	NAIF		N
Zirconia - Zirconium Dioxide	10-50	Y	7440-67-7	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>		N
<b>BINDER:</b>							
Resin - Phenol-Formaldehyde (PNOR)	10-20	Y	9003-35-4	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		N
Carbon Black-Carbon	0-5	Y	1333-86-4	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>		N
Lime, Calcium Oxide	0-5	Y	1305-78-8	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>		N
Iron Oxide	0-5	Y	1309-37-1	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>		N
Titanium Dioxide	0-5	Y	13463-67-7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		N
Wax - Parafin Wax	10	Y	8002-74-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>		N
<b>REINFORCING:</b>							
Fiberglass Mesh, Amorphous Silica	>15	Y	65997-17-3	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		N

DOT Hazard Classification: Non-Hazardous

SARA Title III Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

<b>HMIS<sup>®</sup> Rating Numbers</b>	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Personal Protection</b>
	1	0	0	X
<b>Hazard Ratings:</b>	0 = Minimum hazard	1 = Slight hazard	2 = Moderate hazard	3 = Serious hazard
	A = Goggles	B = Goggles + Gloves	C = Face Shield, Gloves + Apron	4 = Severe hazard
				X = Special, See sections VII & VIII of this sheet

## Section III - Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H <sub>2</sub> O=1) N/A
Vapor Pressure (mm/Hg.) N/A	Melting Point N/A
Vapor Density (Air=1) N/A	Evaporation Rate N/A
Solubility in Water N/A	
Appearance and Odor Solid, various colors, may have slight phenolic odor.	

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
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Legend:

Y - Yes

N - No

N/A - Not Applicable

Extinguishing Media

N/A

Special Fire Fighting Procedures

None

Unusual Fire and Explosion Hazards

N/A

### Section V - Reactivity Data

Stability	Unstable		Conditions to avoid: N/A
	Stable	X	

Incompatibility (Material to avoid):

Strong Acids

Hazardous Decomposition or Byproducts

None

Hazardous	May Occur		Conditions to avoid: This product does not decompose.
Polymerization	Stable	X	

### Section VI - Health Hazard Data

Route(s) of Entry: During normal use	Inhalation? Nuisance dust	Skin? Abrasion irritation	Ingestion? N/A
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Health Hazards (Acute and Chronic)

**EYES:** May cause irritation. **SKIN:** May cause irritation. **INHALATION:** May cause respiratory problems, mucous membrane irritation or aggravate existing problems. **INGESTION:** Not anticipated. If occurs, no adverse affects known.

Signs and Symptoms of Exposure:

Coughing, shortness of breath.

Medical Conditions Generally Aggravated by Exposure:

N/A

Emergency and First Aid Procedures

**EYES:** Flush with large amounts of water. **SKIN:** Wash with soap and water. **INGESTION:** Seek medical help.

**INHALATION:** Remove to fresh air. Seek medical help.

#### WARNING:

- Grinding and cutting generate dust.
- Most of the dust generated when grinding or cutting are from the material being ground or cut.
- Excessive dust inhalation may affect breathing function, may cause skin, lung or eye irritation.
- Fiberglass content is a possible carcinogen when dust is inhaled.
- See Federal Hazard Communication Standard 29CFR 1910.1200.

### Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released if Spilled

Use normal clean up procedures.

Waste Disposal Method

Landfill in accordance with local, state, and Federal regulations.

Precautions to Be Taken in Handling and Storing

Normal handling and storage methods using caution not to drop or crush.

Other Precautions

Do not operate above maximum operating speed marked on the wheel.

### Section VIII - Control Measures

Respiratory Protection (Specify Type)

OSHA or NIOSH approved respirator as required.

Ventilation	Local Exhaust	Special
	Necessary	N/A
	Mechanical	Other
	N/A	N/A

Protective Gloves May be useful.	Eye Protection Recommended.
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Other Protective Clothing or Equipment:

Not required.

Work/Hygienic Practices

Keep work area clean.

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. MILWAUKEE ELECTRIC TOOL CORPORATION makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof.