

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)

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.

Grinding Wheels

Section I

49-94-1220, 49-94-1405, 49-94-1410, 49-94-1415, 49-94-4500, 49-94-4505, 49-94-5000, 49-94-5005, 49-94-6300, 49-94-6305

Manufacturer's Name	Emergency Telephone Number
Milwaukee Electric Tool Corporation	1-800-424-9300
Address (Number, Street)	Contact Telephone Number for Technical Information
13135 West Lisbon Road	262-781-3600 or 1-800-729-3878 (1-800-SAWDUST)
(City, State, and Zip Code)	Date Prepared
Brookfield, Wisconsin 53005	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	
Aluminum Oxide, Non-Fiberous		40-90%	Ν	1344-28-1	15mg/m3	10mg/m3	N	N	
Calcium Oxi		1-5%	Ν	1305-78-8	5mg/m3	2mg/m3	Ν	N	
Carbon Bla	Carbon Black		Ν	1333-86-4	3.5mg/m3	3.5mg/m3	N	N	
Cured Phenol Formald	lehyde Resin	3-12%	Ν	9003-35-4	0ppm	0ppm	N	N	
Fiberglass	3	0.003-10%	N	65997-17-3	1fbr/cc	Ofbr/cc	Ν	N	
Inorganic Fluori	des **	2-10%	N	NA	2.5mg/m3	2.5mg/m3	Ν	N	
Manganese Compo	Manganese Compounds (*) **		Ν	NA	NA	NA	Ν	N	
@Crystalline Silica	a, Quartz	0.001-1%	N	14808-60-7	.1mg/m3	.1mg/m3	Y	N	
Silicon Carb	ide	80-90%	N	409-21-2	10mg/m3	10mg/m3	Ν	N	
Sodium Silicate		5-15%	N	1344-09-8	15mg/m3	0mg/m3	Ν	N	
Sulfates & Sulfides **		1-10%	N	NA	0mg/m3	0mg/m3	Ν	N	
Zinc Compound	Zinc Compound (*) **		N	NA	NA	NA	Ν	N	
Zirconium Ox		30-50%	N	1314-23-4	5mg/m3	5mg/m3	Ν	N	
(*) 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 OSHA exposure limit represented above is for respirable dust and assumed to be worst case exposure to 100% crystalline silica; 10mg/m3/(%silica+2).									
	** Substance is a compound and/or mixture.								
@ Actual grinding tests with wheels known to contain Crystalline Silica did not produce any detectable amount of respirable free Crystalline silica. The grinding wheel may be comprised of only some of the above.									
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.									
HMIS [®] Rating Numbers Health		ı	Flammability		Reactivity		Persor	Personal Protection	
1			0		0			A	
Hazard Ratings: 0 = M	linimum hazard	1 = Slight haz	zard	2 = Moderate hazard		3 = Serious hazard		Severe hazard	
A = G	ioggles B = Go	oggles + Gloves	C =	Face Shield, Glo	ves + Apron	X = Special	, See sections VII &	VIII of this sheet	

Section III - Physical/Chemical Characteristics

Boiling Point	Specific Gravity (H ₂ O=1)
N/A	N/A
Vapor Pressure (mm/Hg.)	Melting Point
N/A	N/A
Vapor Density (Air=1)	Evaporation Rate
N/A	N/A
Solubility in Water	
Non-soluble	
Appearance and Odor	
Solid article. Odorless.	

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Legend: Y - Yes N - No N/A - Not Applicable

Section IV - Fire and Explosion Hazard Data							
Flash Point (Metho	od Used)		Flammable Limits		LEL		UEL
N/A Extinguishing Med							
N/A							
Special Fire Fighting Procedures							
N/A							
Unusual Fire and Explosion Hazards							
None	Dessti	-:	-4-				
	ion V - Reactivity Data						
Stability	Unstable		Conditions to avoid:				
	Stable X N/A						
	Incompatibility (<i>Material to avoid</i>): Avoid acids of all types with a pH < 4.0						
Hazardous Decom	position or Byp	roducts					
							ed from the workplace will be
							omposition products. For
							ace amounts of phenol and
	e. For prod	ucts co	ntaining inorganic fluo	rides, the	rmal decompos	sition may proc	luce trace amounts of
fluorides. Hazardous	May Occur	i					
Polymerization	Stable	Х	Conditions to avoid: N/A				
-							
Section V	- Health	Haza					
Route(s) of Entry: During normal use			Inhalation? Affects breathing, irrita		Skin? Irritation		Ingestion? None
Health Hazards (A			Alleets breathing, inte	ation	Intation		None
			rritating to eyes and re	espiratory	tract at high co	ncentrations.	CHRONIC: May affect
							i intended use may contain
							obstruction. For products
			excessive exposure to	o inorganio	c fluorides has l	been shown to	increase bone density.
Signs and Sympto			av obstruction difficul	ltv broathi	ing EVES May	v irritate eves	SKIN: May experience skin
	irritation from dust. INGESTION: No known adverse affects, but ingestion is not recommended. Medical Conditions Generally Aggravated by Exposure:						
N/A							
Emergency and First Aid Procedures							
INHALATION: Remove to fresh air. If breathing stops, get medical attention immediately and give artificial respiration.							
EYES: Wash with large amounts of water and obtain medical attention if needed. SKIN: Wash affected areas with soap and water and obtain medical attention if needed. INGESTION: Call poison control center, hospital emergency room, or							
physician immediately.							
Section VII - Precautions for Safe Handling and Use Steps to Be Taken in Case Material is Released if Spilled							
Follow normal clean up procedures.							
Waste Disposal Method							
Use standard landfill methods consistent with applicable Federal, State, Provincial, and local laws. Products with listed							
fluorides may have slightly soluble fluoride swarf.							
Precautions to Be Taken in Handling and Storing Always handle and store wheels in a careful manner							
Other Precautions							
ALWAYS visually inspect wheels before mounting, check machine speed against the established maximum safe operating							
speed marked on the wheel, check mounting flanges for equal and correct diameter, use mounting blotters, be sure work rest is							
properly adjusted, use a safety guard covering at least one-half of the grinding wheel, allow newly mounted wheels to run at							
operating speed with guard in place for at least one minute before grinding, and turn off coolant before stopping wheel to avoid an out-of-balance wheel.							
an out-of-balance wheel.							

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Respirators required when airborne contaminant levels exceed the TLV's.

Ventilation	Local Exhaust	Special		
	Use adequate ventilation.	N/A		
	Mechanical	Other		
	N/A	See OSHA 29 CFR 1910.94 (Ventilation) and 29 CFR		
		1910.1000 (Air Contaminants)		
Protective G	Protective Gloves Eye Protection			
N/A		ays wear safety glasses or some type of eye protection.		
	tive Clothing or Equipment:			
Use of th	is product may create elevated sound levels. Hearing	g protection should be worn where required (see OSHA 29		
CFR 191	0.134 and other applicable regulations).	· · ·		
Work/Hygier	ic Practices			

N/A

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.

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