

MATERIAL SAFETY DATAT SHEET ORGANIC BONDED GRINDING AND CUTTING WHEELS



HAZARD RATING
Please rate consistent with NFPA Code

SECTION 1 NAME AND PRODUCT					
MANUFACTURER'S NAME: METABO CORPORATION	CONTACT: RICHARD E. LAWSON				
ADDRESS (STREET, CITY, STATE AND ZIP CODE) 1231 WILSON DRIVE, WEST CHESTER, PA 19380	EMERGENCY TELEPHONE #: (800) 638-2264				
TRADE NAME, COMMON NAME OR SPECIFICATION:ORGANIC BONDED GRINDING WHEELS	APPROVED BY:				
CHEMICAL FAMILY OR PRODUCT TYPE: ANY GRADE	DATE: 11/11/03				

SECTION II COMPOSITION PER 29CFR 1910.1200 (G) (4)							
CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN (Y/N)
Alpha-Alumina	90	Aluminum Oxide	Y	1344-28-1	10mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Silicon Carbide	90	Silicon Carbide	Y	409-21-2	10mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Zirconia Alumina	90	Zirconia Alumina	Y	70692-95-4	5mg/m ³ (as Zirconium)	5mg/m ³ (as Zirconium)	N
The grinding wheel may be comprised of 1 or more of the above abrasives. The chemicals listed below may be a part of the bond system.							
Fluorides (as F)	3	Cryolite	Y	15096-52-3	2.5mg/m ³	2.5mg/m ³	N
Pyrite FeS2	2	Pyrite	Y	1309-36-0	**NAIF	2.0mg/m ³	N
Glass, Fibrous or Dust	10	Fib erglass	Y	65997-17-3	15mg/m ³ Total Dust	10mg/m ³ Total Dust	N

SECTION III PHYSICAL AND CHEMICAL DATA				
BOILING POINT **NAIF	MELTING POINT *NAIF	SPECIFIC GRAVITY 2-4		
VAPOR PRESSURE **NAIF	PERCENT VOLATILE BY VOL **NAIF	VAPOR DENSITY **NAIF		
EVAPORATION RATE **NAIF	SOLUBILITY IN WATER Slight	SOLUBILITY IN ALCOHOL **NAIF		
SOLUBILITY IN OTHER SOLVENT **	NAIF APPEARANCE AND ODOR SOLID PRODUC	APPEARANCE AND ODOR SOLID PRODUCT: MAY GIVE OFF ODOR IN USE.		

SECTION IV SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - NONE OTHER PRECAUTIONS: **NAIF

SECTION V CORROSIVITY AND REACTIVITY DATA					
STABILITY: UNSTABLE X STABLE	POLMERIZATION:	MAY OCCUR X WILL NOT OCCUR			
INCOMPATABILITY (MATERIALS TO AVOID). **NAIF					
DECOMPOSITION In use, dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.					
CONDITIONS TO BE AVOIDED. **NAIF					
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^{*} MATERIALS ARE REGULATED BY OSHA 29 CFR 1910.1200 , HAZARD COMMUNICATION STANDARD

^{**}NAIF = NO APPLICABLE INFORMATION FOUND ***N/A = NOT APPLICABLE

SECTION VI HEALTH, FIRST AID AND MEDICAL DATA				
PRIMARY ROUTE(S) OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION		
INHALATION (During Grinding)	ACUTE: POSSIBLE COUGH CHRONIC: MAY AFFECT BREATHING CAPACITY.	REMOVE TO FRESH AIR. ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN MEDICAL ASSISTANCE, IF NEEDED.		
INGESTION (During Grinding)	NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.	OBTAIN MEDICAL ASSISTANCE, IF NEEDED.		
SKIN (During Grinding)	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE, IF NEEDED.		
EYE (During Grinding)	DUST MAY IRRITATE EYES.	WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, IF NEEDED.		
OTHER POTENTIAL HEALTH RISKS (During Grinding)	GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING AND DUST WHICH MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS.	OBTAIN MEDICAL ASSISTANCE, IF NEEDED. REMOVE TO FRESH AIR.		

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING

SEE ANSI STANDARD B7.1.

NORMAL USE

HANDLING WITH ADEQUATE VENTILATION. SEE OSHA 29CFR 1910.94 (VENTILATION) and 29CFR1910.1000 (AIR CONTAMINANTS)

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS.

NORMAL CLEANUP PROCEDURES. EVALUATE ALL PRODUCT IN ACCORDANCE WITH ANSI B7.1.

WASTE DISPOSAL METHOD

STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS. PRODUCTS CONTAINING FLOURIDES MAY LEACH A VERY SLIGHT AMOUNT IN LANDFILLS.

SECTION VIII PERSONAL PROTECTION INFORMATION				
RESPIRATORY PROTECTION (SPECIFY TYPE) AS NEEDED. FOR APPROVED DUST RESPIRATORS SEE OSHA 29CFR 1910.134				
VENTILATION LOCAL RECOMMENDED				
	MECHANICAL (GENERAL)	RECOMMENDED		
	OTHER	**NAIF		
PROTECTIVE GLO	VES	RECOMMENDED		
EYE PROTECTION REG		RECOMMENDED		
OTHER EQUIPMENT		AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.95 (HEARING PROTECTION)		
MEASURES TO BE TACT WITH THIS M		REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CON-		

SEE SECTION VII & VIII

SECTION IX FIRE AND EXPLOSION HAZARD DATA					
FLASH POINT **NAIF N	METHOD USED **N/A	FLAMMABLE LIMITS	LEL N/A	UEL ***N/A	
EXTINGUISHING MEDIA	USE WATER				
SPECIAL FIRE FIGHTING PROCE	EDURES NONE				
EXPLOSION POTENTIAL	**NAIF				

FOR COMPANY USE

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