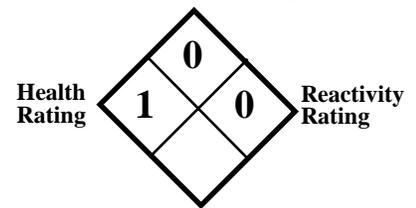




Metabo

MATERIAL SAFETY DATA SHEET

Flammability Rating



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 FeS ₂	2	Pyrite	Y	1309-36-0	**NAIF	2.0mg/m ³	N
Glass, Fibrous or Dust	10	Fiberglass	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 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 STABLE POLMERIZATION: MAY OCCUR WILL NOT OCCUR

INCOMPATIBILITY (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

* MATERIALS ARE REGULATED BY OSHA 29 CFR 1910.1200 , HAZARD COMMUNICATION STANDARD

NAIF = NO APPLICABLE INFORMATION FOUND *N/A = NOT APPLICABLE

