Health	N.D.
Flammability	N.D.
Reactivity	N.D.
Personal Protection	N.D.

BOWMAN DISTRIBUTION MATERIAL SAFETY DATA SHEET

Health	N.D.
Flammability	N.D.
Reactivity	N.D.
Specific Hazard	N.D.

Personal Prote		f.D.							Spe	cific Haza	rd 1		
HMIS R	atings				SECTION I					NFPA I	Ratings		
PRODUCT NA	ME				24 HR. EMERGEN	CV TEI	EDHONE	NO BOY	VMAN PART	NO (n	200 1 of		
BENCH GRINDING WHEELS (303) 623-5716										age 1 ot 2, 21626-			
							ONE NO.		27, 21627-				
Bowman Distribution, Barnes Group Inc. (216) 416-720						0 21628, 21				1, 21628-	2, 21628-		
ADDRESS 1301 E. 9th St., Suite 700, Cleveland, Ohio 44114-1824							DATE						
HAZARDOUS I	ACC U	47400 ID		7/97									
None		DESCIT	ir HON, FHOR	En Shirring	INAMIE, MAZARU CL	<i>д</i> оо, п	AZAHU IL	NO. (49 C	FH 172.101)			
ADDITIONAL H	1474DD (LACCEC	(on applicable										
	IAZANU C	LASSES	(as applicable	,									
None	A A II V					Leon	** ** *						
CHEMICAL FAMILY Aluminum Oxide							FORMULA Proprietary						
Attailin	TOTAL OXI												
			SEC	TION II - H	AZARDOUS	INGF	REDIE	NTS					
CAS REGISTRY NUMBER	%W	%V		CHEMICAL NAME(S)			SHA PEL	ACGIH Other TLV Limits					
1344-28-1	76					-			Cirrino	1910(z) (
	18		Aluminum C	xide		. 15m	1g/m ³	I0mg/m ³					
1332-58-7	3		Clay							+			
68476-25-5	3		Feldspar			-				<u> </u>			
1303-96-4	3		Borax			_	<u> </u>						
	\vdash			·	···	+							
	 		· · · · · · · · · · · · · · · · · · ·			_							
3		\rightarrow											
J	+					+							
										+			
ALL CHEMICAL	COMPOL	INDS MA	DVED WITH A	ACTEDICK (t)	ADE TOVIO OUEMO	41.0.011	D IFOT TO	THE DED	202010 050	1	TO OF		
SECTION 313 O	F TITLE III	OF THE	SUPERFUND A	MENDMENTS	ARE TOXIC CHEMIC	TION AC	T (SARA)	OF 1986 A	ND 40 CFR	PART 372.	15 OF		
				SECTION	i III - PHYSIC	AL D	ATA						
BOILING POIN	IT N.A.				AVITY (H ₂ O = 1)			MAXIMU	JM PERCEN	T VOC BY	WEIGHT		
		°F	°C		1.0-2.4			%					
VAPOR PRESSURE N.A. PERG				PERCENT VO	ERCENT VOLATILE BY VOLUME (%)			MELTIN	MELTING POINT		20500		
@ <u></u> °F		nm Hg	psi 40			1					20500		
VAPOR DENSI	TY (AIR =	1)	N.A.	EVAPORATIO	N RATE (Ether = 1)	•							
SOLUBILITY IN WATER			PH =				PERCE	NT SOLID B	<u> </u>				
SOLUBILITY IN	N WALER	N.A.								WEIGHT (%)			
											MATERIAL IS:		
APPEARANCE	AND OD	-	-				<u> </u>	MATERI	AL IS:				
	AND OD	-	-		· · · · · ·		<u> </u>	MATERI	AL IS:				
APPEARANCE	AND OD	, no odo	г.	IV - FIRE	AND EXPLOS	SION	HAZA						
APPEARANCE	AND OD	, no odo	r. SECTION	IV - FIRE	AND EXPLOS						UEL		
APPEARANCE White, blue, p FLASH POINT None	AND OD	, no odo .°F	r. SECTION						TA		UEL		
APPEARANCE White, blue, p FLASH POINT None EXTINGUISH	E AND OD	, no odo .°F	r. SECTION						TA		UEL		
APPEARANCE White, blue, p FLASH POINT None	E AND OD	, no odo °F A	r. SECTION met						TA		UEL		
APPEARANCE White, blue, p FLASH POINT None EXTINGUISH Nonflammab	E AND OD	, no odo	r. SECTION met						TA		UEL		
APPEARANCE White, blue, p FLASH POINT None EXTINGUISH Nonflammabl SPECIAL FIR	E AND OD	, no odo	r. SECTION met						TA		UEL		
APPEARANCE White, blue, p FLASH POINT None EXTINGUISH Nonflammabl SPECIAL FIR Nonflammabl	ING MEDI	°F A	r. SECTION met						TA		UEL		
APPEARANCE White, blue, p FLASH POINT None EXTINGUISH Nonflammabl SPECIAL FIR Nonflammab	ING MEDI	°F A	r. SECTION met						TA		UEL		

SECTION V - HEALTH HAZARD DATA

HEALTH HAZ	ARDS (ACI	JTE AN	D CHRONIC -	· INCLI	JDE TARG	GET ORGAN EFFECTS)	Skin - constant contact may cause slight skin
irritation.	adon. dase	WIIGHT	r grittering da	C 13 CIC	13311100 0	is ildisance dust. Onlo	iic.	Skiii - Constant Contact may cause slight skiii
CONDITIONS	TO AVOID	_						
Inhalation of	1000							(
			-					
SIGNS AND S	YMPTOMS	OF OV	EREXPOSUR	E	 			
Coughing, ski				ज	Skin Con	toos IVI Other/one	miés el) Eye contact
			L		SKIII COII	itact X Other (spe	cny,) Eye contact
EMERGENCY					0D 26 D04	adad Ever alapses ava		th proper eye wash. Get medical attention. Skin: wash
area thorough	nly with so	ap and	water. Get m	edical	attention		3 WI	til proper eye wasn. det medicai attention. Skin. wasn
MEDICAL CO	NDITIONS	AGGRA	VATED BY F	(POSL	ÎŘF			
Bronchial and								
						VI - REACTIVI	ΓΥ	DATA
	UNSTABL	E	CONDITION	S TO A	AVOID			
STABILITY	1970)						-	
	STABLE	X		vith ac	ids. Use	within ANSI B 71.1 gui	delii	nes.
INCOMPATIBI Acids.	LITY (mate	rials to a	avoid)					
HAZARDOUS	DECOMP	OITIZO	PRODUCTS	; .				
in use, in mos	t cases, tr	MAY O		Trom ti		ITIONS TO AVOID	iy gi	reater than the grinding components.
HAZARDOUS		MAI O	COOR		00,10,	mono to avoid		
POLYMERIZA	ITION	WILL	OT OCCUR	х	N.A.			
		<u> </u>						
STEPS TO BE	TAKEN IN	CASE				PILL OR LEAK	PF	ROCEDURES
Non toxic.	. IONEITIN	OAGL	IIAI CHIACIG	nece	WED ON	SPILLED		
WASTE DISPO	DSAL MET	HOD ordance	with Federal	. State	and Loc	al regulations.		2
				,				
CERCLA (Sup	erfund) RE	PORTAI	BLE QUANTI	Y (in II	os.)			
N.A. RCRA HAZAF	RDOUS WA	STE NO). (40 CFR 26	1.33)				
N.A.								
VOLATILE ORGANIC COMPOUND (VOC) as packaged, minus water) Theoreticallb/gal								
,		N.A.			Analytical	lb/gal		
		S	ECTION	VIII -	- SPE(CIAL PROTECT	101	N INFORMATION
RESPIRATOR OSHA approv	Y PROTEC	TION (s	pecify type)					
OSHA approv	eu respira	tory pro	itection for n	uisanc	e aust.			
	LLOCAL	FXHAI	JST (specify r	ate)			-	SPECIAL
VENTILATION	To elir	ninate d	lust.	·	 			N.A
	N.A.		(general) (sp	ecity ra	ite)			OTHER N.A.
PROTECTIVE	GLOVES (specify t	ype)			EYE PROTECTION (spec	ify type)
OTHER PROT	ECTIVÉ EC	UIPME	NT					
N.A.				OTI	<u> </u>	ODEOLAL DO		ALITIONIC
PRECAUTION	S TO BE T	AKEN II				- SPECIAL PRE	-0/	AUTIONS
In compliance								
OTHER PREC		s: use ir	accordance	with A	ANSI B 71	1.1 guidelines.		
l			0.0400					

21626, 21626-1, 21626-2, 21626-3,

21627, 21627-1, 21627-2, 21627-3,

21628, 21628-1, 21628-2, 21628-3

N.A. - Not Applicable (page 2 of 2) N.E. - Not Established (page 2 of 2) N.D. - Not Determined

BOWMAN DISTRIBUTION, BARNES GROUP INC. 1301 E. 9th St., Suite 700, Cleveland, Ohio 44114-1824 Telephone No. (2161 416-7200 24 Hour Emergency No. (303) 623-5716 3/17/97