

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION AND USE

MATERIAL

NAME - IDENTIFIER: CARBON BONDED STEEL FOUNDRY FILTER CORES

MANUFACTURER NAME:		SUPPLIER NAME:		
Apogee Ceramics Inc.		Apogee Ceramics Inc.		
STREET ADDRESS:		STREET ADDRESS:		
71 Folsetter Dr.		71 Folsetter Dr.		
CITY:	COUNTRY:	CITY:	COUNTRY:	
Paris, Ontario	Canada	Paris, Ontario	Canada	
POSTAL CODE:	PHONE:	POSTAL CODE:	PHONE:	
N3L 0E2	519-442-3636	N3L 0E2	519-442-3636	

CHEMICAL NAME:	CHEMICAL FAMIL	Y:	CHEMICAL FORMULA:
Alumina, Mullite, Carbon	Clay		Al_2O_3 , $3Al_2O_3$ - $2SiO_2$, C_2
MOLECULAR WEIGHT:	MATERIAL USE:		
	MANUFACTURING END USE		

SECTION 2 - COMPOSITION INGREDIENTS

COMPOSITION INGREDIENTS	%	UN. NA OR	OSH PEL (mg/m ³)
		CASE NUMBERS	RESPIRABLE
Alumina (Al ₂ O ₃)	50-60	1344-28-1	5
Mullite $(3Al_2O_3 - 2SiO_2)$	20-25	1302-93-8	10
Carbon (C)	10-20	7440-44-0	5

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE:		ODOUR AND APPEARANCE: BLACK		ODOUR THRESHOLD
GAS() LIQUID() SOLID(X)				(PPM): N/A
VAPOUR	FREEZING	VAPOUR DENSITY	EVAPORATION	BOILING POINT (°C):
PRESSURE	POINT (°C):	(AIR-1): N/A	RATE: N/A	N/A
(mm Hg): N/A	N/A			
% VOLATILE	SOLUBILITY IN	BULK	MELTING	COEFFICIENT WATER
(BY VOLUME):	WATER (20 °C):	DENSITY:	POINT:	OIL DIST:
N/A	N/A	0.6g/cc. TYPICAL	>1600 C	N/A



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SECTION 4 - FIRE AND EXPLOSIVE DATA

FLAMMABILITY						
YES () NO (X): IF YES, UNDER W	YES () NO (X): IF YES, UNDER WHICH CONDITIONS?					
MEANS OF EXTINCTION:						
SPECIAL PROCEDURE:						
FLASH POINT (°C) AND METHOD:	FLASH POINT (°C) AND METHOD: UPPER EXPLOSION LOWER EXPLOSION LIMIT					
N/A (% BY VOLUME): N/A (% BY VOLUME): N/A			IE): N/A			
AUTO IGNITION TEMPERATURE	TDG FLAMMABILITY	HAZARDOUS	COMBUSTION			
(°C): N/A CLASSIFICATION: N/A PRODUCTS: N/A						
EXPLOSION DATA:	SENSITIVITY TO STATIC	EXPLOSIVE	RATE OF			
SENSITIVITY TO IMPACT: N/A	DISCHARGE:	POWER:	BURNING:			
	N/A	N/A	N/A			

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY	
YES (X), NO () IF NO UNDER WHICH CONDITIONS?	
COMPATIBILITY WITH OTHER SUBSTANCES	
YES (X), NO () IF NO, WHICH ONES?	
REACTIVITY UNDER WHICH CONDITIONS:	NON-REACTIVE
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:					
SKIN SKIN	EYE	INHALATION	INHALAT	ION	
CONTACT() ABSORPT	ION() CONTACT()	ACUTE(X)	CHRONIC	$C(\mathbf{X})$	
INGESTION ()					
EFFECTS OF ACUTE EXPO	OSURE TO MATERIAL	:			
NO EFFECT OTHER THAN	AS NUISANCE DUST	(WHEN MACHIN	NING IS REQU	IRED).	
EFFECTS OF CHRONIC EX	EFFECTS OF CHRONIC EXPOSURE:				
LONG TERM EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA CAN CAUSE SILICOSIS.					
LD/50 OF MATERIAL:	LC/50 OF MATERI	AL: EXPOSUR	E LIMIT OF	IRRITANCY OF	
N/A	N/A	MATERIA	L:	MATERIAL:	
5 mg/m N/A					
SENSITIZING CAPABILIT	Y CARCINOGENICIT	Y REPRODU	CTIVE	SYNERGISTIC	
OF MATERIAL: N/A	OF MATERIAL: N	/A EFFECTS	OF	MATERIALS:	
		MATERIA	L: N/A	N/A	



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SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: RESPIRATOR RECOMMENDED WHEN DUST IS					
CREATED DUE TO MACHINING OF FIRED CERAMICS. PROTECTIVE EYE WEAR, GLOVES					
RECOMMENDED IN CASE OF BROKEN FRAGMENTS.					
GLOVES (SPECIFY):	RESPIRATORY (SPECIFY):	EYE (SPECIFY):			
SEE ABOVE	WHERE TLV IS EXCEEDED	SEE ABOVE			
FOOTWEAR (SPECIFY):	CLOTHING (SPECIFY):	OTHER (SPECIFY):			
N/A	N/A	N/A			
ENGINEERING CONTROLS (SPEC	CIFY E.G. VENTILATION ENCLOS	ED PROCESS):			
N/A					
LEAK AND SPILL PROCEDURE:					
N/A					
WASTE DISPOSAL:					
N/A					
HANDLING PROCEDURES AND EQUIPMENT:					
N/A					
STORAGE REQUIREMENTS:					
N/A					
SPECIAL SHIPPING INFORMATION:					
N/A	N/A				

SECTION 8 - FIRST AID MEASURES

IN CASE OF EYE INJURY, SEVERE CUTS FROM SHARP BROKEN CERAMIC FRAGMENTS, CONSULT PHYSICIAN IMMEDIATELY.

SOURCES USED: ADDITIONAL INFORMATION:

SECTION 9 - PREPARATION DATE OF THE MSDS

PREPARED BY	PHONE NUMBER:	DATE PREPARED:
(GROUP, DEPARTMENT, ETS)		
Operations Manager	519-442-3636	June 29, 2017
Apoge Ceramics Inc.		,