MATERIAL SAFETY DATA SHEET

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SECTION 1 - PRO	DUCT IDENTIFI	CATION	AND USE						
PRODUCT IDENTIFIER: SPECTRUM LEAD FREE RAISED ACCENT COLOR 39 (BLACK)						PRODUCT IDENTIFICATION NUMBER RAC3			
PRODUCT USE : CERA	MIC UNDERGLAZ	E				<u> </u>			
MANUFACTURER'S NAME SPECTRUM GLAZES INC.					SUPPLIER'S NAME SPECTRUM GLAZES INC.				
STREET ADDRESS 40 HANLAN RD UNIT 33				STREET ADDRESS 40 HANLAN RD UNIT 33					
CITY WOODBRIDGE PROVINCE ONTARIO				CITY WOODBRIDGE PROVINCE ONTARIO					
POSTAL CODE L4L 3P6 EMERGENCY TEL.NO.(905)851-8310				POSTAL CODE L4L 3P6 EMERGENCY TEL.NO. (905) 851-8310					
SECTION 2 - HAZARDOUS INGREDIENTS									
HAZARDOUS INGREDIENTS		*	CAS NUMBER	1		INGREDIENTS SPECIES AND	LC50 OF INGREDIENT (SPECIFY SPECIES)		
SiO2		30-40					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
CaO		1-2	1305-78	3-8	· · · · · · · · · · · · · · · · · · ·				
Na2O		8-12							
A1203	203		1344-28	3-1		· ,			
B203		1-2							
				-					
SECTION 3 - PHYSICA	L DATA								
PHYSICAL STATE LIQUID	ODOUR AND AS	DOUR AND APPEARANCE ODOUR THRESHOLD N.A.							
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY EVAPORATI N.A.		ON RAT	1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		FREEZING POINT(C)			
рн 6.5-7	SPECIFIC GRA	VITY	COEFF. WA	TER/OIL DIST.					
SECTION 4 - FIRE AND EXPLOSION DATA									
FLAMMABILITY YES	NO X FLAME	S UNDER	WHICH CON	DITION	S : THIS E	PRODUCT DOES	NOT SUPPORT		
MEANS OF EXTINCTION	NO SPECIAL M	EANS RE	QUIRED						
MANTE							FLAMMABLE LIMIT		
AUTOIGNITION TEMP. (C) N.A. HAZARDOUS (COMBUSTION PRODUCTS NONE				
EXPLOSION DATA N.A. SENSITIVITY IMPACT N.A. ACTIVITY TO STATIC							SE N.A.		
SECTION 5 - REACTIVITY DATA									
CHEMICAL STABILITY YES X NO							Barret Son		
INCOMPATIBILITY WITH OTHER SUBSTANCES YES NO X						The e	APR 1.6 2009		
EACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY							<u>illika Nigoromaan</u> Mustera esta animom		
HAZARDOUS DECOMPOSIT				LE, NO	POLYMERIZA	ATION BUT TO			

PRODUCT IDENTIFIER SPECTRUM LEAD FREE UNDERGLAZE RAC3 BLACK										
SECTION 6 - TOXICOLOGICAL PROPERTIES										
ROUTE OF ENTRY SKIN CONTACT SKIN ABSORPTION X EYE CONTACT X INHALATION INGESTION X										
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS. EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS.										
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: METAL FUMES IN THE VAPOURS FROM FIRING CERAMIC GLAZES MAY CAUSE LUNG INFLAMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.										
EXPOSURE LIMITS IRRITAN		NCY OF PRODUCT	SENSITIZATION TO PRODUCT		CARCINOGENICITY					
TERATOGENCITY	REPRODI	UCTIVE TOXICITY	MUTAGENICITY		SYNERGISTIC PRODUCTS					
SECTION 7 - PREVENTIVE MEASURES										
PERSONAL PROTECTIVE EQUIPMENT:										
GLOVES (SPECIFY) WORK GLOVES		RESPIRATOR (SPEC		EYE (SPECIFY) SAFETY GLASSES						
FOOTWEAR (SPECIFY)		CLOTHING (SPECIE	FY)	OTHER (SPECIFY)						
ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS) VENTILATION SHOULD BE USED WHEN SPRAYING GLAZES.										
LEAK AND SPILL PROCEDURE: SCOOP INTO SUITABLE RECEPTACLE. DO NOT WASH DOWN DRAIN.										
WASTE DISPOSAL: SEND TO APPROVED SITE IN ACCORDANCE WITH REGULATIONS.										
HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL EQUIPEMENT NEEDED. FOLLOW STANDARD PLANT HYGIENE PROCEDURE.										
STORAGE REQUIREMENTS: STORE IN DRY AREAS.										
SPECIAL SHIPPING INFORMATION: PROTECT AGAINST PHYSICAL DAMAGE. DOT LABEL NON-REGULATED										
SECTION 8 - FIRST AID MEASURES										
SPECIFIC MEASURES: GLAZE CONTAINS THE OXIDES LISTED IN THE CHEMICAL FORMULA IN FORM OF CERAMIC FRIT. SOME OF THESE OXIDES ARE ON THE INGREDIENT DISCLOSURE LIST, ONCE THESE OXIDES ARE FUSED AND CONVERTED INTO FRIT THEY ARE NO LONGER AVAILABLE IN TOXIC FORM EVEN THOUGH TESTING WOULD DETECT THE PRESENCE OF THESE OXIDES. (FRIT IS ESSENTIALLY AN INSOLUBLE SUBSTANCE). THE OXIDES ARE PRESENT IN THE FORM OF A SINTERED CERAMIC STAIN OF LOW SOLUBILITY. THESE INGREDIENTS ARE PRESENT IN A STABLE AQUEOUS SUSPENSION.										
SECTION 9 - PREPARATION DATE OF MSDS										
PREPARED BY (GROUP, DEPARTMENT, ETC.) TECHNICAL DEPT.		PHONE NUMBER: (905) 851-8310		DATE May 7, 2	007					