MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODU	IICT IDENTIFICA		TERIAL SAF	<u> </u>	iin biib	<u></u>					
		TOTION	PRODUCT IDENTIFICATION NUMBER CR02								
PRODUCT IDENTIFIER: SPECTRUM LEAD FREE CRYSTALS CRO2 WHITE PRODUCT IDENTIFICATION NUMBER CR02 PRODUCT USE: CERAMIC GLAZE											
MANUFACTURER'S NAME SPECTRUM GLAZES INC.											
STREET ADDRESS: 273 BOWES RD, UNIT A1 CITY: CONCORD PROVINCE: ONTARIO					STREET ADDRESS: 273 BOWES RD, UNIT A1						
CITY: CONCORD		CITY: CONCORD PROVINCE: ONTARIO									
POSTAL CODE: L4K1H8 EMERGENCY TEL(905)695-8355 POSTAL CODE: L4K1H8 EMERGENCY TEL(905)695-8355											
SECTION 2 - HAZARDOUS INGREDIENTS EXPOSURE LIMIT - AIR mg/m3-8 hr. TWA											
HAZARDOUS INGREDIENTS		35-40	CAS NUM		1.0 MG			ACGIH TLV			
· ·	*SILICA (SiO2)		14808-6		7 %SiO2+2			0.1			
ZrO2		10-15	1314-2	3-4	5.0 Zr			5.0 Zr			
				-							
* SILICA, CRYSTALLINE QUARTZ, (SiO2) IS CONSIDERED TO BE CARCINOGENIC BY IARC CLASS IIA.											
SEE SECTION 8											
SECTION 3 - PHYSICAL D	DATA										
PHYSICAL STATE ODOUR AND APPEARANCE ODOURLESS SOLID								ODOUR THRESHOLD(PPM) N.A.			
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY EVAPORATI N.A.			ON RA	BOILING POINT(C) N.A.			FREEZING POINT(C)			
рн 6.5-7	SPECIFIC GRAV	ITY +1	COEFF. WA	TER/O	IL DIST	-					
SECTION 4 - FIRE AN	ND EXPLOSION D	ATA									
FLAMMABILITY YES NO	X FLAMES U	NDER WHIC	H CONDITIO	NS : :	THIS PR	ODUCT DOES NO	r suppo	ORT COMBUSTION			
MEANS OF EXTINCTION NO	SPECIAL MEANS	S REQUIRE	D								
FLASHPOINT AND METHOD NONE			UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.				LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.				
AUTOIGNITION TEMP.(C) N.A. HAZARDOUS COMBUSTION PRODUCTS NONE											
EXPLOSION DATA N.A. SENSITIVITY IMPACT N.A. ACTIVITY TO STATIC DISCHARGE N.A.											
		SE	CTION 5 - 1	REACTI	VITY DA	ATA					
CHEMICAL STABILITY YES X NO IF NO,	UNDER WHICH CO	ONDITIONS									
INCOMPATIBILITY WITH OTHER SUBSTANCES YES NO X IF SO WHICH ONESREACTIVITY											
REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY											
HAZARDOUS DECOMPOSITIO			STABLE, N		MERIZA	TION BUT TOXIO	C FUMES	MAY BE RELEASED WHEN			

PRODUCT IDENTIFIER SPECTRUM LEAD FREE CRYSTALS CR02 WHITE										
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 CRYSTALS MAY CAUSE LUNG INFLAMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.										
EXPOSURE LIMITS IRRITANC		Y OF PRODUCT	SENSITIZATION TO E	PRODUCT	CARCINOGENICITY					
TERATOGENCITY	REPRODUCTIVE TOXICITY		MUTAGENICITY		SYNERGISTIC PRODUCTS					
SECTION 7 - PREVENTIVE MEASURES										
PERSONAL PROTECTIVE EQUIPMENT:										
GLOVES (SPECIFY) WORK GLOVES		RESPIRATOR (SPECIAL APPROVED DUST MASK	7	EYE (SPECIFY) SAFETY GLASSES						
FOOTWEAR (SPECIFY)		CLOTHING (SPECIFY))	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										
THIS MIXTURE MAY CONTAIN-IN FRIT (TOXIC SUBSTANCES CONTROL ACT INVENTORY, CHEMICAL ABSTRACTS SERVICE NUMBER 65997-18-4) AND/OR OTHER TYPICAL CERAMIC RAW MATERIALS, INCLUDING PIGMENT (S) THAT BELONG TO THE MIXED METAL OXIDES PIGMENTS CLASS, (WHICH ARE THE RESULT OF HIGH TEMPERATURE CALCINATIONS) AND ALTHOUGH THEY CONSIST OF METAL ATOMS AND OXYGEN ATOMS ARRANGED IN UNIQUE CRYSTAL STRUCTURES, THEIR TOXICOLOGICAL PROPERTIES ARE NOT CONSIDERED TO BE THOSE OF EITHER THE METAL OR THE METAL OXIDES-RATHER THEY ARE MAN-MADE MINERALS WHICH CLOSELY DUPLICATE THE PROPERTIES OF THEIR NATURAL COUNTERPARTS, WHICH THEY CLOSELY RESEMBLE, BUT THEY MAY CONTAIN A SMALL AMOUNT OF THE RAW MATERIAL METAL OXIDES PUTTING THEM IN TH OSHA HAZARDOUS CATEGORY- THE FOLLOWING POTENTIALLY HAZARDOUS SUBSTANCES REFFERENCED BY FED/OHSHA IN CFR 1910.1200:										
SECTION 9 - PREPARATION DATE OF MSDS										
PREPARED BY (GROUP, DEPARTMENT, ETC.) TECHNICAL DEPT.		PHONE NUMBER: (416) 747-8310		DATE 1 AUGUST	2012					