MATERIAL SAFETY DATA SHEET

			IAL SAF		DAIA	01111				
SECTION 1 - PROD				NT CO	DLOR 12	2	PRODU	CT IDE	ENTIFICATION NUMBER	
PRODUCT IDENTIFIER:SPECTRUM LEAD FREE RAISED ACCENT COLOR 12 PRODUCT IDENTIFICATION NUMBER LT.BLUE RAC12										
PRODUCT USE : CERAM	IC UNDERGLAZE									
MANUFACTURER'S NAME	SPECTRUM GL	AZES IN	C. SUPPLIER'S NAME SP			SPECT	PECTRUM GLAZES INC.			
STREET ADDRESS 94 F		STREET ADDRESS 94 FE				94 FENM	ENMAR DRIVE			
CITY TORONTO PROVINCE ONT			ARIO CITY TORONTO				PR	PROVINCE ONTARIO		
POSTAL CODE M9L1M5	47-8310	POSTAL CODE M9L1M5 EMERGENCY TEL.(416)747-8310								
SECTION 2 - HAZARDO	US INGREDIENT	S								
HAZARDOUS INGREDIENTS		\$	CAS NUMBER		(SI	LD50 OF INGREDIENTS (SPECIFY SPECIES ANI ROUTE)			LC50 OF INGREDIENT (SPECIFY SPECIES)	
SiO2		30-40	14808-60-7		ILV 15mg/m3 TLV/TWA			A		
CaO		1-2	1305-78	- 8						
Na2O		8-12	1313-59	-3						
A1203		8-10	1344-28	-1						
B2O3		1-2	1303-86	-2						
SECTION 3 - PHYSICA	L DATA									
PHYSICAL STATE LIQUID	ODOUR AND APPEARANCE ODOUR THRESHOLD(PPM) N.A.									
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENS: (AIR=1)	EVAPORATION RATE BOILI N.A. N.A.					FREEZING POINT(C) N.A.			
рН 6.5-7	SPECIFIC GRAVITY COEFI 1.8-2.2 N.A.			WATER/OIL DIST.						
SECTION 4 - FIRE A	AND EXPLOSION	DATA								
FLAMMABILITY YES	NO X FLAME	S UNDER	WHICH CON	DITIC	ns : 1	THIS PI	RODUCT I	DOES N	OT SUPPORT COMBUSTION	
MEANS OF EXTINCTION	NO SPECIAL M	EANS RE	QUIRED							
FLASHPOINT AND METH NONE	UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.			IT	LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.					
AUTOIGNITION TEMP.(HAZARDOUS COMBUSTION PRODUCTS NONE									
EXPLOSION DATA N.A.	T N.A. ACTIVITY TO STATIC DISCHARGE N.A.						E N.A.			
		SEC	TION 5 - H	REACT	IVITY	DATA				
CHEMICAL STABILITY YES X NO IF N	O, UNDER WHIC	H CONDI'	TIONS							
INCOMPATIBILITY WIT YES NO X IF S	H OTHER SUBST O WHICH ONESR		ΓY							
REACTIVITY AND UNDE	R WHAT CONDIT	IONS: N	O REACTIVI	TY						
HAZARDOUS DECOMPOSI RELEASED WHEN	TION PRODUCT:	MATERI	AL IS STAB		NO POLY FERIAL			UT TOX	IC FUMES MAY BE	

PRODUCT IDENTIFIER SPECTRUM LEAD FREE UNDERGLAZE RAC12 LIGHT BLUE										
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	CY OF PRODUCT	SENSITIZATION TO PRODUCT		CARCINOGENICITY					
TERATOGENCITY	REPRODU	CTIVE TOXICITY	MUTAGENICITY		SYNERGISTIC PRODUCTS					
SECTION 7 - PREVENTIVE MEASURES										
PERSONAL PROTECTIVE EQUIPMENT:										
GLOVES (SPECIFY) WORK GLOVES		RESPIRATOR (SPEC APPROVED DUST MA	-	EYE (SPECIFY) SAFETY GLASSES						
FOOTWEAR (SPECIFY)		CLOTHING (SPECIF	'Y)	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: (416)747-8310		DATE 30 JULY 2009						