MATERIAL SAFETY DATA SHEET

					DAIA					
SECTION 1 - PROD	UCT IDENTIFIC	ATION A	ND USE				1			
PRODUCT IDENTIFIER:SPECTRUM LEAD FREE RAISED ACC					OLOR 9 P	PRODUCT IDENTIFICATION NUMBER RAC9				
PRODUCT USE : CERAM	IC UNDERGLAZE									
MANUFACTURER'S NAME	C. SUPPLIER'S NAME S			SPECTR	SPECTRUM GLAZES INC.					
STREET ADDRESS 94 F		STREET ADDRESS 94 FENMAR I					VE			
CITY TORONTO PROVINCE		ICE ONT	E ONTARIO		CITY TORONTO PI				ROVINCE ONTARIO	
POSTAL CODE M9L1M5 EMERGENCY TEL.			.(416)747-8310		POSTAL CODE M9L1M5 EMERGENCY T				TEL.(416)747-8310	
SECTION 2 - HAZARDO	US INGREDIENT	s								
HAZARDOUS INGREDIENTS		0/0	CAS NUMBER		LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)				LC50 OF INGREDIENT (SPECIFY SPECIES)	
SiO2		30-40	14808-6	0-7	ILV 15r	15mg/m3 TLV/TWA				
Ca0		1-2	1305-78	-8						
Na2O		8-12	1313-59	-3						
A1203		8-10	1344-28-1							
B203		1-2	1303-86	-2						
SECTION 3 - PHYSICA	L DATA									
PHYSICAL STATE LIQUID	ODOUR AND APPEARANCE ODOURLESS LIQUID								ODOUR THRESHOLD(PPM) N.A.	
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENS:	EVAPORATION RATE BOIL: N.A.					FREEZING POINT(C)			
рН 6.5-7	SPECIFIC GRA	COEFF. WATER/OIL DIST. N.A.								
SECTION 4 - FIRE A	AND EXPLOSION	DATA								
FLAMMABILITY YES	NO X FLAME	S UNDER	WHICH CON	DITI	ONS : TH	IS P	RODUCT DO	OES N	OT SUPPORT COMBUSTION	
MEANS OF EXTINCTION	NO SPECIAL M	EANS RE	QUIRED							
FLASHPOINT AND METHOD NONE			UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.			i	LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.			
AUTOIGNITION TEMP.(C) N.A.			HAZARDOUS COMBUSTION PRODUCTS				UCTS NON	NONE		
EXPLOSION DATA N.A.	SENSITIVI	TY IMPA	CT N.A.	AC	TIVITY T	O ST	ATIC DIS	CHARG	E N.A.	
		SEC	CTION 5 - 1	REACT	IVITY D	ATA				
CHEMICAL STABILITY YES X NO IF N	O, UNDER WHIC	H CONDI	TIONS							
INCOMPATIBILITY WIT YES NO X IF S	H OTHER SUBSTO WHICH ONESR		TY							
REACTIVITY AND UNDE	R WHAT CONDIT	'IONS: N	O REACTIVI	TY						
HAZARDOUS DECOMPOSI RELEASED WHEN	TION PRODUCT:	MATERI	AL IS STAB		NO POLYM TERIAL I			T TOX	IC FUMES MAY BE	

PRODUCT IDENTIFIER SPECTRUM LEAD FREE UNDERGLAZE RAC9 PINK SECTION 6 - TOXICOLOGICAL PROPERTIES ROUTE OF ENTRY SKIN ABSORPTION X SKIN CONTACT EYE CONTACT X INHALATION INGESTION 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 SENSITIZATION TO CARCINOGENICITY IRRITANCY OF PRODUCT PRODUCT TER ATOGENCITY REPRODUCTIVE TOXICITY MUTAGENICITY SYNERGISTIC PRODUCTS SECTION 7 - PREVENTIVE MEASURES PERSONAL PROTECTIVE EQUIPMENT: GLOVES (SPECIFY) RESPIRATOR (SPECIFY) EYE (SPECIFY) WORK GLOVES APPROVED DUST MASK 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 RECEPTACIE. 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 PHONE NUMBER: DATE PREPARED BY

(416)747 - 8310

30 JULY 2009

(GROUP, DEPARTMENT, ETC.)

TECHNICAL DEPT.