MATERIAL SAFETY DATA SHEET

SECTION 1 - PROI	OUCT IDENTIFIC		TERIAL SAF	ETY L	ATA SI	166T				
PRODUCT IDENTIFIER : SPECTRUM LEAD FREE 154 WROUGHT IRON PRODUCT IDENTIFICATION NU								TIFICATION NUMBER 154		
PRODUCT USE : CERAN	MIC GLAZE									
MANUFACTURER'S NAME	E SPECTRUM GL	AZES IN	. SUPPLIER'S NAME SPECTRUM				RUM GI	LAZES INC.		
STREET ADDRESS: 273 BOWES RD, UNIT A1			STREET ADDRES			DRESS: 273 BC	S: 273 BOWES RD, UNIT A1			
CITY: CONCORD PROVINCE: ONTARI			CITY: CONCOR			NCORD	RD PROVINCE: ONTARIO			
POSTAL CODE: L4K1H8 EMERGENCY TEL(905)6			5-8355 POSTAL CODE: L4			DE: L4K1H8 EN	IERGENO	CY TEL(905)695-8355		
SECTION 2 - HAZARDO	OUS INGREDIENT	S								
HAZARDOUS INGREDIENTS		00	CAS NUMBER		LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)			LC50 OF INGREDIENT (SPECIFY SPECIES)		
SiO2		35-45	14808-60-7		ILV 15mg/m3 TLV/TWA					
CaO		4-8	1305-78-8							
A1203		6-12	1344-28	-1						
B203		6-12	1303-86	-2						
Fe203		1-6	1309-37	-1						
CuO		5-10	1317-38	-0						
TiO2		.5-13	1317-70	-0						
MnO2		3-12	1313-13-	-9						
SECTION 3 - PHYSICA	AL DATA									
PHYSICAL STATE LIQUID	ODOUR AND AN ODOURLESS LI		ODOUR THRESHOLD(PPM) N.A.							
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSI (AIR=1)	ΙΤΥ	Y EVAPORAT N.A.		N RATE BOILING N.A.		NT(C)	FREEZING POINT(C) N.A.		
рН 6.5-7	SPECIFIC GRA 1.6-2.0	AVITY	COEFF. WATER/OIL DIST. N.A.							
SECTION 4 - FIRE	AND EXPLOSION	DATA								
FLAMMABILITY YES	NO X FLAME	S UNDER	WHICH CON	DITIC	NS : 1	THIS PRODUCT	DOES N	NOT SUPPORT COMBUSTION		
MEANS OF EXTINCTION	N NO SPECIAL M	EANS RE	QUIRED							
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.								GE N.A.		
		SEC	CTION 5 - 1	REACT	IVITY	DATA				
CHEMICAL STABILITY YES X NO IF M		H CONDI	TIONS							
INCOMPATIBILITY WIT YES NO X IF S			ТҮ							
REACTIVITY AND UND	ER WHAT CONDIT	IONS: N	O REACTIVI	TY						
HAZARDOUS DECOMPOS: RELEASED WHEN	ITION PRODUCT:	MATERI	AL IS STAB			YMERIZATION E IS MELTED.	UT TOX	TIC FUMES MAY BE		

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 154 WROUGHT IRON										
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 SYSTEM.										
EXPOSURE LIMITS	IRRITAN	CY OF PRODUCT	SENSITIZATION TO PRODUCT)	CARCINOGENICITY					
TERATOGENCITY	REPRODUCTIVE 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 (SPECI)	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: STO	ORE IN DF	RY 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)695-8355		DATE 15 JAN.2015						