MATERIAL SAFETY DATA SHEET

		MATE	RI	AL SAFI	ETY	DATA	SHEET					
SECTION 1 - PRO	DUCT IDENTIFICA	ATION AND	D U	ISE								
PRODUCT IDENTIFIER: SPECTRUM LEAD FREE 913 OLD COPPER PRODUCT IDENTIFI									NTIFI	CATION NUMBER 913		
PRODUCT USE : CERAMIC	C GLAZE											
MANUFACTURER'S NAME		SUPPLIER'S NAME SPECTRUM GLAZES INC.										
STREET ADDRESS: 273 BOWES RD, UNIT A1				STREET ADDR			RESS: 2	RESS: 273 BOWES RD, UNIT A1				
CITY: CONCORD PROVINCE: ONTAR.					CITY: CONCORD PROVINC					E: ONTARIO		
POSTAL CODE: L4K1H8 EMERGENCY TEL(905)				5-8355 POSTAL CODE:		E: L4K1	H8 EMERG	ENCY	TEL(905)695-8355			
SECTION 2 - HAZARDOU	S INGREDIENTS											
HAZARDOUS INGREDIENTS		00		CAS NUM	BER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUT			LC50 OF INGREDIENT (SPECIFY SPECIES)			
Si02		25-33 14		14808-6	14808-60-7		ILV 15mg/m3 OSHA/TWA					
CaO		5-10	1305-78		-8							
Na20	2-5	2-5 1313		9-3								
A1203		3-7		1344-28-1								
B203		4-8		1303-86	-2							
ZnO		19-23		1314-13	-2							
Fe203		.5-1.5		1309-37	-1							
MgO		1-2		1309-48	-4							
ZrO2		6-9		1314-23	-4							
MnO2		.25-1		1313-13	- 9							
CuO		1-2	1317-		-0							
SECTION 3 - PHYSICAL	DATA											
PHYSICAL STATE LIQUID	ODOUR AND APPEARANCE ODOUR THRESHOL N.A.							DOUR THRESHOLD(PPM)				
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)		EVAPORATION RA				BOILING POINT(C)			FREEZING POINT(C)		
рн 6.5-7	SPECIFIC GRAVITY 1.6-2.0			COEFF. WATER/OIL DIST. N.A.								
SECTION 4 - FIRE	AND EXPLOSION D	ATA										
FLAMMABILITY YES NO	O X FLAMES U	NDER WHI	ІСН	CONDITIO	NS :	THIS PR	ODUCT DO	DES NOT SU	PPORT	COMBUSTION		
MEANS OF EXTINCTION 1	NO SPECIAL MEAN	S REQUIF	RED									
FLASHPOINT AND METHOD NONE										JAMMABLE LIMIT DLUME) N.A.		
AUTOIGNITION TEMP.(C) N.A.				HAZARDOUS COMBUSTION PRODUCTS NONE								
EXPLOSION DATA N.A. SENSITIVITY IMPACT N					AC							
		S	ECT	PION 5 - F	EACT	IVITY DA	ΔTA					
CHEMICAL STABILITY YES X NO IF NO,	, UNDER WHICH C	ONDITION	NS									
INCOMPATIBILITY WITH YES_ NO X IF SO												
REACTIVITY AND UNDER			EACI	TIVITY								

HAZARDOUS DECOMPOSITION PRODUCT: MATERIAL IS STABLE, NO POLYMERIZATION BUT TOXIC FUMES MAY BE RELEASED WHEN

SECTION 6 - TOXICOLOGICAL PR	ROPERTIES											
ROUTE OF ENTRY		SECTION 6 - TOXICOLOGICAL PROPERTIES										
SKIN CONTACT	SK	IN ABSORPTION X	EYE CONTACT X I	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	IRRITANC	Y OF PRODUCT	SENSITIZATION TO I	PRODUCT	CARCINOGENICITY							
TERATOGENCITY	REPRODUC	TIVE TOXICITY	MUTAGENICITY		SYNERGISTIC PRODUCTS							
SECTION 7 - PREVENTIVE MEASURES												
PERSONAL PROTECTIVE EQUIPMENT:												
GLOVES (SPECIFY) WORK GLOVES		RESPIRATOR (SPECIE APPROVED DUST MASK	'	EYE (SPE SAFETY G	BPECIFY) 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 - FIR	ST 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, DEPARTMENTECHNICAL DEPT.	NT,ETC.)	PHONE NUMBER: (905)695-8355		DATE 15 OCTOR	BER 2015							