

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - PRODUCT IDENTIFICATION AND USE**

PRODUCT IDENTIFIER : SPECTRUM LEAD FREE GLAZE 1112 GOLD

PRODUCT IDENTIFICATION NUMBER 1112

PRODUCT USE : CERAMIC GLAZE

MANUFACTURER'S NAME SPECTRUM GLAZES INC.

SUPPLIER'S NAME SPECTRUM GLAZES INC.

STREET ADDRESS: 273 BOWES RD, UNIT A1

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CITY: CONCORD PROVINCE: ONTARIO

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POSTAL CODE: L4K1H8 EMERGENCY TEL(905)695-8355

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**SECTION 2 - HAZARDOUS INGREDIENTS**

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENTS (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFY SPECIES)
SiO2	45-60	14808-60-7	ILV 15mg/m3 OSHA/TWA	
K2O	0.5-2	12136-45-7		
CaO	0.5-2	1305-78-8		
Na2O	0.5-2	1313-59-3		
Al2O3	4-8	1344-28-1		
B2O3	0.5-3	1303-86-2		
SrO2	0.5-2	1314-18-7		
Fe2O3	0.5-2	1309-37-1		
CuO	3-6	1317-38-0		
MnO	25-35	1313-13-9		

**SECTION 3 - PHYSICAL DATA**

PHYSICAL STATE LIQUID	ODOUR AND APPEARANCE ODOURLESS LIQUID			ODOUR THRESHOLD (PPM) N.A.
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENSITY (AIR=1)	EVAPORATION RATE N.A.	BOILING POINT (C) N.A.	FREEZING POINT (C) N.A.
pH 6.5-7	SPECIFIC GRAVITY 1.6-2.0	COEFF. WATER/OIL DIST. N.A.		

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLAMMABILITY YES\_\_ NO X FLAMES UNDER WHICH CONDITIONS : THIS PRODUCT DOES NOT SUPPORT COMBUSTION

MEANS OF EXTINCTION NO SPECIAL MEANS REQUIRED

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.

**SECTION 5 - REACTIVITY DATA**

CHEMICAL STABILITY  
YES X NO\_\_ IF NO, UNDER WHICH CONDITIONS

INCOMPATIBILITY WITH OTHER SUBSTANCES  
YES\_\_ NO X IF SO WHICH ONES REACTIVITY

REACTIVITY AND UNDER WHAT CONDITIONS: NO REACTIVITY

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

MATERIAL IS MELTED.

PRODUCT IDENTIFIER SPECTRUM LEAD FREE 1112 GOLD

**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 INFLAMMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM.

EXPOSURE LIMITS

IRRITANCY OF PRODUCT

SENSITIZATION TO PRODUCT

CARCINOGENICITY

TERATOGENICITY

REPRODUCTIVE TOXICITY

MUTAGENICITY

SYNERGISTIC PRODUCTS

**SECTION 7 - PREVENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES (SPECIFY)  
WORK GLOVES

RESPIRATOR (SPECIFY)  
APPROVED DUST MASK

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 - 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 OCTOBER 2015