

8958

MATERIAL SAFETY DATA SHEET

9736075C

V# 678600

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: SPECTRUM LEADFREE UNDERGLAZE 505 UG ORANGE

PRODUCT IDENTIFICATION # 505

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	21-71	14808-60-7	ILV 15mg/m3 OSHA/TWA	
MgO	6-8	1309-48-4		
CaO	3-4	1305-78-8		
Na2O	2-3	1313-59-3		
Al2O3	8-10	1344-28-1		
B2O3	2-3	1303-86-2		
ZrO2	25-30	1314-23-4		
ENCAPSULATED STAIN - ORANGE	15-20	72828-62-7		

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
NONEUPPER 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 UNDERGLAZE 505 UG

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.

OVEREXPOSURE TO CADMIUM BY INHALATION CAN RESULT IN A METALLIC TASTE IN THE MOUTH, HEADACHE, SHORTNESS OF BREATH, CHEST-PAIN, WEAKNESS, LEG PAINAS AND FLUID IN THE LUNGS. THESE SIGNS AND SYMPTOMS MAY BE DELAYED, SOMETIMES OCCURRING FOUR TO EIGHT HOURS FOLLOWING EXPOSURE. KIDNEY AND LIVER DAMAGE MAY ALSO OCCUR. SWALLOWING CAN RESULT IN SEVERE NAUSEA, VOMITING, DIARRHEA, STOMACH CRAMPS, SALIVATION, HEADACHE, MUSCLE CRAMPS AND DIZZINESS.
LONG TERM OVEREXPOSURE TO THE FUMES AND DUST OF CADMIUM HAVE BEEN ASSOCIATED WITH EMPHYSEMA, BRONCHITIS AND KIDNEY DAMAGE. CHRONIC OVEREXPOSURE TO THE METAL AND CADMIUM COMPOUNDS, SUCH AS CADMIUM OXIDE, CADMIUM SULFIDE, CADMIUM SULFATE AND CADMIUM CLORIDE, MAY RESULT IN LUNG CANCER, ALTHOUGH A DEFINITE CAUSE-EFFECT RELATIONSHIP HAS NOT BEEN FULLY ESTABLISHED.

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
TERATOGENCITY	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
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