**MATERIAL SAFETY DATA SHEET**

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| **SECTION 1 - PRODUCT IDENTIFICATION AND USE** | | |
| PRODUCT IDENTIFIER: SPECTRUM LEAD FREE STAIN 2273 TANGERINE | | PRODUCT IDENTIFICATION # 2273 |
| PRODUCT USE : CERAMIC STAIN | | |
| MANUFACTURER'S NAME SPECTRUM GLAZES INC. | SUPPLIER'S NAME SPECTRUM GLAZES INC. | |
| STREET ADDRESS: 273 BOWES RD, UNIT A1  CITY: CONCORD PROVINCE: ONTARIO  POSTAL CODE: L4K1H8 EMERGENCY TEL(905)695-8355 | STREET ADDRESS: 273 BOWES RD, UNIT A1  CITY: CONCORD PROVINCE: ONTARIO  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) |
| ENCAP.CADMIUM ORANGE Zr Cd Se Si | 100 | 72828-62-7 |  |  |
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| **SECTION 3 - PHYSICAL DATA** | | | | |
| PHYSICAL STATE POWDER | ODOUR AND APPEARANCE  ODOURLESS POWDER | | | 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 N.A. | SPECIFIC GRAVITY N.A. | COEFF. WATER/OIL DIST.  N.A. | |  |

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| **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. | |

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| **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 REACTIVE |
| 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. |

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| PRODUCT IDENTIFIER SPECTRUM LEAD FREE STAIN 2273 TANGERINE | | | |
| **SECTION 6 - TOXICOLOGICAL PROPERTIES** | | | |
| ROUTE OF ENTRY  SKIN CONTACT SKIN ABSORPTION X EYE CONTACT X INHALATION INGESTION X | | | |
| EFFECTS OF ACUTE EXPOSURE TO PRODUCT: CADMIUM, NICKEL, LEAD ARE LISTED AS SUSPECT CARCINOGENS. THIS COMPOUND IS LOW IN ACUTE TOXICITY. PROLONGED EXPOSURE ABOVE OCCUPATIONAL LIMITS MAY CAUSE LUNG DAMAGE. | | | |
| EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: THE DUST MAY CAUSE EYE OR SKIN IRRITATION AND REDDENING. NOT LIKELY TO BE ABSORBED THROUGH THE SKIN. | | | |
| EXPOSURE LIMITS | IRRITANCY OF PRODUCT | SENSITIZATION TO PRODUCT | CARCINOGENICITY |
| TERATOGENCITY | REPRODUCTIVE TOXICITY | MUTAGENICITY | SYNERGISTIC PRODUCTS |

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| **SECTION 7 - PREVENTIVE MEASURES** | | |
| PERSONAL PROTECTIVE EQUIPMENT: USE FUME HOODS WITH SUFFICIENT EXHAUST TO REMOVE MATERIAL FROM BREATHING ZONE. | | |
| 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 STAINS. | | |
| 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 | | |

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| **SECTION 8 - FIRST AID MEASURES** |
| SPECIFIC MEASURES: THESE COLORS ARE INORGANIC PRODUCTS OF FUSION AT HIGH TEMPERATURES; AS A RESULT, THE INDIVIDUAL CONSTITUENTSARE RENDERED ESSENTIALLY INERT AND DO NOT EXHIBIT THE SAME CHEMICAL PROPERTIES AS IF THEY EXISTED IN THE PURE STATE. |

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| **SECTION 9 - PREPARATION DATE OF MSDS** | | |
| PREPARED BY (GROUP,DEPARTMENT,ETC.)  TECHNICAL DEPT. | PHONE NUMBER:  (905)695-8355 | DATE  15 OCTOBER 2015 |