

MATERIAL SAFETY DATA SHEET

SECTION I PRODUCT INFORMATION

MANUFACTURER: THE POTTERY SUPPLY HOUSE LTD.
ADDRESS: 1120 SPEERS ROAD
OAKVILLE, ONTARIO L6L 2X4
SUPPLIER: THE POTTERY SUPPLY HOUSE LTD. TEL: 1 800 465-8544
ADDRESS: 1120 SPEERS ROAD 905 849-5540
OAKVILLE, ONTARIO L6L 3X4 FAX: 905 849-0001
MATERIAL NAME: **BRIGHT ORANGE LEADLESS EARTHENWARE GLAZE**
MATERIAL USE: CERAMIC DECORATING GLAZE

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	%	C.A.S.#	LD50 (ORAL, RAT)	LC50
FRIT,* CONTAINING FUSED OXIDES OF:	30 - 60	65997-18-4	NOT AVAILABLE	NOT AVAILABLE
ALUMINUM	3 - 7	1344-28-1	N.A.	N.A.
SODIUM	1 - 5	12401-86-4	N.A.	N.A.
CALCIUM	3 - 7	1305-78-8	N.A.	N.A.
SILICON (AMORPHOUS)	10 - 30	60676-86-0	N.A.	N.A.
BORON	7 - 13	1303-86-2	N.A.	N.A.
ORANGE STAIN* CONTAINING:	1 - 5	N.A.	N.A.	
ZIRCONIUM SILICATE	1 - 5	10101-52-7	N.A.	N.A.
CADMIUM SULPHIDE	0.1 - 1	1306-23-6	7080 mg/kg	N.A.
SELENIUM	0.1 - 1	7782-49-2	6700 mg/kg	N.A.

*A FUSED SILICATE COMPOUND CONTAINING REPORTABLE OXIDES. FORMED BY HIGH TEMPERATURE FUSION OR CALCINATION, IT MAY NOT EXHIBIT ANY OF THE PROPERTIES OF THE METAL COMPOUNDS LISTED.

SECTION III PHYSICAL DATA

PHYSICAL STATE: LIQUID/SOLID SUSPENSION.
ODOUR / APPEARANCE: OPAQUE, PALE ORANGE FLUID WITH MILD ODOUR.
ODOUR THRESHOLD: NOT AVAILABLE
SPECIFIC GRAVITY: APPROXIMATELY 1.60
VAPOUR PRESSURE: NOT AVAILABLE
VAPOUR DENSITY: NOT AVAILABLE
EVAPORATION RATE: NOT AVAILABLE
BOILING POINT: NOT AVAILABLE
FREEZING POINT: APPROXIMATELY 0° C (WATER)
PH: NOT AVAILABLE
COEFF. WATER/OIL
DISTRIBUTION: NOT AVAILABLE

SECTION IV FIRE OR EXPLOSION HAZARD

CONDITIONS OF FLAMMABILITY: NOT FLAMMABLE
MEANS OF EXTINCTION: NOT APPLICABLE
FLASHPOINT, METHOD OF DETERMINATION: NOT APPLICABLE
UPPER FLAMMABLE LIMIT: NOT APPLICABLE
LOWER FLAMMABLE LIMIT: NOT APPLICABLE
AUTO-IGNITION TEMPERATURE: NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS: TOXIC METAL FUMES MAY BE EVOLVED IN A FIRE. VERY SMALL QUANTITIES (<1%, TOTAL) OF CARBON DIOXIDE, CARBON MONOXIDE, HYDROCHLORIC ACID, FORMALDEHYDE, AND NO_x/SO_x VAPOURS MAY BE LIBERATED IN A FIRE.
EXPLOSION DATA,
SENSITIVITY TO MECHANICAL IMPACT: NONE
SENSITIVITY TO STATIC DISCHARGE: NONE

SECTION V REACTIVITY DATA

CONDITIONS UNDER WHICH PRODUCT IS CHEMICALLY UNSTABLE
NAME OF INCOMPATIBLE SUBSTANCES: ACIDIC ACIDS
CONDITIONS OF REACTIVITY: NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC FUMES MAY BE RELEASED DURING FIRING

SECTION VI TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN CONTACT:	POSSIBLE IRRITANT.
SKIN ABSORPTION:	UNLIKELY
EYE CONTACT:	POSSIBLE IRRITANT.
INHALATION:	POSSIBLE IRRITANT.
INGESTION:	THIS PRODUCT IS LOW IN ACUTE TOXICITY.
ORGANS AFFECTED BY CONSTITUENT COMPOUNDS OF FRIT/STAIN:	BORON: SKIN, EYES. ALUMINUM: NOT AVAILABLE. CALCIUM: RESPIRATORY SYSTEM, SKIN, EYES. SILICA: RESPIRATORY SYSTEM. SODIUM: SKIN, EYES. ZIRCONIUM: RESPIRATORY SYSTEM, SKIN. SELENIUM: RESPIRATORY SYSTEM, SKIN, EYES, LIVER KIDNEYS, BLOOD. CADMIUM: RESPIRATORY SYSTEM, KIDNEYS, PROSTATE, BLOOD. THE CADMIUM AND SELENIUM IN THIS PRODUCT (BOTH, <1%) ARE MOSTLY ENCAPSULATED WITHIN A PROTECTIVE ZIRCON MATRIX.
EFFECTS OF ACUTE EXPOSURE:	CONTACT WITH EYES, SKIN AND RESPIRATORY TRACT MAY CAUSE PHYSICAL IRRITATION AND INFLAMMATION.
EFFECTS OF CHRONIC EXPOSURE:	OVEREXPOSURE TO RESPIRABLE DUST OR MIST MAY CAUSE SKIN, EYE AND RESPIRATORY IRRITATION DUE TO THE PHYSICAL NATURE OF THE PARTICULATES. REPEATED AND PROLONGED BREATHING OF THESE PARTICULATES MAY CAUSE COUGHING, WHEEZING IMPAIRED LUNG FUNCTION AND INCREASED SPUTUM PRODUCTION. SMOKING AGGRAVATES THESE EFFECTS. CADMIUM: MAY CAUSE KIDNEY DAMAGE THROUGH INGESTION OR INHALATION. MAY CAUSE LUNG DISEASE THROUGH INHALATION. MAY CAUSE BONE DISEASE IF HIGH LEVELS ARE INGESTED.
EXPOSURE LIMITS - TIME WEIGHTED AVERAGE EXPOSURE VALUES (TWA EV):	GLAZE FRIT: NOT ESTABLISHED AS COMPONENT OXIDES: CALCIUM 2.0 mg./m³ ALUMINUM 10.0 mg./m³ FUSED SILICON 0.1 mg./m³ BORON 10.0 mg./m³ SODIUM N/A ORANGE STAIN: NOT ESTABLISHED AS COMPONENT OXIDES: ZIRCONIUM 5.0 mg./m³ CADMIUM, AS Cd 0.01 mg./m³ SELENIUM, AS Se 0.2 mg./m³
IRRITANCY OF PRODUCT:	REFER TO ROUTE OF ENTRY
SENSITIZATION OF PRODUCT:	NO KNOWN EFFECTS
CARCINOGENICITY OF PRODUCT:	THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT CADMIUM AND CADMIUM COMPOUNDS ARE CARCINOGENIC TO HUMANS. ZIRCON CONTAINS TRACE AMOUNTS OF NATURALLY OCCURRING URANIUM AND THORIUM; INHALATION OF RESPIRABLE DUSTS MAY CAUSE LUNG CANCER.
TERATOGENICITY OF PRODUCT:	NO KNOWN EFFECTS
MUTAGENICITY OF PRODUCT:	NO KNOWN EFFECTS
SYNERGISTIC MATERIALS:	NONE KNOWN

SECTION VII PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT TO BE USED:	THIS PRODUCT HAS BEEN SPECIFICALLY FORMULATED FOR BRUSH APPLICATION. USERS WHO APPLY BY SPRAYING ARE ADVISED TO WEAR SAFETY GLASSES AND AN APPROPRIATE RESPIRATOR (REFER TO EXPOSURE LIMITS). USERS WHO APPLY BY DIPPING ARE ADVISED TO WEAR RUBBER GLOVES TO PREVENT SKIN IRRITATION.
ENGINEERING CONTROLS TO BE USED:	NONE FOR BRUSH APPLICATION. THE USE OF VENTILATING EQUIPMENT IS RECOMMENDED FOR SPRAY APPLICATION. THIS PRODUCT CONTAINS CELLULOSE GUM (~1%) AND A PRESERVATIVE (<0.1%). ABOVE 227°C, CARBON MONOXIDE, CARBON DIOXIDE AND SMOKE ARE RELEASED AS THE GUM IS BURNT OFF. HYDROCHLORIC ACID, FORMALDEHYDE, SO _x AND NO _x VAPOURS MAY BE LIBERATED WHEN THE PRESERVATIVE IS FIRED OUT. AT HIGH TEMPERATURES, METAL FUMES MAY BE LIBERATED. WHEN FIRING, USE A DOWNDRAFT OR OVERHEAD HOOD-TYPE EXHAUST.
PROCEDURES TO BE FOLLOWED IN CASE OF SPILL:	CLEAN UP WITH SPONGE OR SPATULA. CAUTION: SPILLS ARE SLIPPERY.
WASTE DISPOSAL:	IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL LAWS. DO NOT EMPTY INTO WATER COURSES.
HANDLING PROCEDURES:	AVOID GENERATING MIST OR DUST. MAINTAIN GOOD PERSONAL HYGIENE. DO NOT EAT, DRINK OR SMOKE. WASH AFTER USE.
STORAGE REQUIREMENTS:	DO NOT STORE NEAR FOODSTUFFS.
SPECIAL SHIPPING INFORMATION:	NONE

SECTION VIII FIRST AID MEASURES

EYE EXPOSURE: FLUSH THOROUGHLY WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.
SKIN EXPOSURE: WASH THOROUGHLY AND APPLY MOISTURIZING HAND CREAM, AS NEEDED, TO DRIED, REDDENED SKIN.
INGESTION: GIVE MILK OR WATER. DO NOT INDUCE VOMITING IF PERSON IS UNCONSCIOUS. SEEK MEDICAL ATTENTION.
INHALATION: REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION AS REQUIRED.

SECTION IX PREPARATION INFORMATION

MSDS PREPARED BY: JON WALLS
PREPARATION DATE: AUG 24, 2010

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