

# 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: **POLISHED PEWTER LEADLESS EARTHENWARE GLAZE**  
MATERIAL USE: CERAMIC DECORATING GLAZE

## SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	%	C.A.S.#	LD50	LC50
<b>FRIT*</b>	<b>30 - 60</b>	<b>65997-18-4</b>	<b>NOT AVAILABLE</b>	<b>NOT AVAILABLE</b>
CONTAINING FUSED OXIDES OF:				
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.
<b>ZINC OXIDE</b>	<b>1 - 5</b>	<b>1314-13-2</b>	<b>N.A.</b>	<b>N.A.</b>
<b>CUPRIC OXIDE</b>	<b>3 - 7</b>	<b>1317-38-0</b>	<b>N.A.</b>	<b>N.A.</b>
<b>MANGANESE DIOXIDE</b>	<b>1 - 5</b>	<b>1313-13-9</b>	<b>N.A.</b>	<b>N.A.</b>
<b>FERRIC OXIDE</b>	<b>1 - 5</b>	<b>1309-37-1</b>	<b>&gt;5000 mg/kg</b> (ORAL, RAT)	<b>N.A.</b>

\*A FUSED SILICATE COMPOUND CONTAINING REPORTABLE OXIDES. FORMED BY HIGH TEMPERATURE FUSION, 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, RED BROWN 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, BUT MANGANESE DIOXIDE WILL LIBERATE OXYGEN WHICH MAY INCREASE THE BURNING RATE OF COMBUSTIBLES.

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<sub>x</sub>/SO<sub>x</sub> 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  
MANGANESE DIOXIDE IS INCOMPATIBLE WITH  
CHLORATES, ALUMINUM DIRUBIDIUM ACETYLIDE,  
HYDROGEN SULPHIDE, SODIUM PEROXIDE,  
POTASSIUM AZIDE, CHLORINE TRIFLUORIDE,

## SECTION V REACTIVITY DATA, CONTINUED

CONDITIONS OF REACTIVITY:  
HAZARDOUS DECOMPOSITION PRODUCTS:

HYDROGEN PEROXIDE, AND REDUCING SUBSTANCES. COPPER OXIDE IS INCOMPATIBLE WITH ACIDS, BASES, SOME METALS AND STRONG REDUCTANTS. FERRIC OXIDE IS INCOMPATIBLE WITH HYDRAZINE, FORMIC ACID, CALCIUM HYPOCHLORITE AND BROMINE PENTAFLUORIDE. INTIMATE MIXTURES OF ZINC AND CHLORINATED RUBBER ARE INCOMPATIBLE.  
NONE KNOWN  
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: REFER TO EFFECTS OF ACUTE EXPOSURE.  
EFFECTS OF ACUTE EXPOSURE: CONTACT WITH EYES, SKIN AND RESPIRATORY TRACT MAY CAUSE PHYSICAL IRRITATION AND INFLAMMATION. INGESTION OF ZINC OR CUPRIC OXIDES MAY CAUSE NAUSEA, CHILLS, VOMITING, THIRST, PAIN AND DIARRHEA. 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. PROLONGED EXPOSURE TO HIGH LEVELS OF RESPIRABLE MANGANESE MAY ADVERSELY AFFECT THE CENTRAL NERVOUS SYSTEM. ASTHMA, PNEUMONIA, AND SUSCEPTIBILITY TO INFECTION HAVE BEEN ASSOCIATED WITH EXPOSURE TO RESPIRABLE MANGANESE DUST. CHRONIC EXPOSURE TO COPPER DUSTS MAY CAUSE RESPIRATORY DISEASE. PROLONGED OR REPEATED INHALATION OF IRON FUMES MAY CAUSE METAL FUME FEVER CHARACTERIZED BY SWEET OR METALLIC TASTE IN THE MOUTH, ACCOMPANIED BY DRYNESS AND IRRITATION OF THE THROAT, COUGH, SHORTNESS OF BREATH, PULMONARY EDEMA, GENERAL MALAISE, WEAKNESS, FATIGUE, MUSCLE AND JOINT PAINS, BLURRED VISION, FEVER AND CHILLS. PROLONGED OR REPEATED INHALATION OF IRON DUST MAY RESULT IN SIDEROSIS (A BENIGN CONDITION) OR IRON PIGMENTATION. LONG TERM EXPOSURE TO IRON CAN RESULT IN AN EXCESS OF IRON IN THE BODY CAUSING ADVERSE EFFECTS ON THE LIVER, BLOOD AND CARDIOVASCULAR SYSTEM.

EXPOSURE LIMITS - TIME WEIGHTED

AVERAGE EXPOSURE VALUES (TWA EV): **GLAZE FRIT: NOT ESTABLISHED** AS COMPONENT OXIDES: **CALCIUM 2.0 mg./m<sup>3</sup>**  
**ALUMINUM 10.0 mg./m<sup>3</sup>**  
**FUSED SILICON 0.1 mg./m<sup>3</sup>**  
**BORON 10.0 mg./m<sup>3</sup>**  
**SODIUM N/A**

**CUPRIC OXIDE, AS COPPER: 1.0 mg./m<sup>3</sup>**  
**MANGANESE DIOXIDE, AS MANGANESE: 0.2 mg./m<sup>3</sup>**  
**FERRIC OXIDE: 5.0 mg./m<sup>3</sup>**  
**ZINC OXIDE: 2.0 mg./m<sup>3</sup>**

IRRITANCY OF PRODUCT: REFER TO ROUTE OF ENTRY  
SENSITIZATION OF PRODUCT: NO KNOWN EFFECTS  
CARCINOGENICITY OF PRODUCT: NO KNOWN EFFECTS  
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.

## SECTION VII PREVENTATIVE MEASURES, CONTINUED

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 <sub>x</sub> AND NO <sub>x</sub> VAPOURS MAY BE LIBERATED WHEN THE PRESERVATIVE IS FIRED OUT. AT HIGH TEMPERATURES, METAL FUMES MAY BE LIBERATED. <b>WHEN FIRING, USE A DOWNDRAFT OR OVERHEAD HOOD-TYPE</b>
<b>EXHAUST</b> . 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. DON'T INDUCE VOMITING. 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: JANUARY 10, 2010

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