

MATERIAL SAFETY DATA SHEET

SECTION I PREPARATION AND PRODUCT INFORMATION

MANUFACTURER: THE POTTERY SUPPLY HOUSE LTD.
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OAKVILLE, ONTARIO L6L 2X4

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OAKVILLE, ONTARIO L6L 3X4 FAX: 905 849-0001

MATERIAL NAME: **CONE 6 LEADLESS GLAZE: HIGH IRONY**
MATERIAL USE: WATER-BASED STONEWARE GLAZE

SECTION II HAZARDOUS INGREDIENTS

| INGREDIENT | % | C.A.S.# | LD50 | LC50 |
|--|----------------|-------------------|---|---|
| FRIT,* CONTAINING FUSED COMPOUNDS OF: | 30 - 60 | 65997-18-4 | N.A. | N.A. |
| ALUMINUM | 1 - 5 | 1344-28-1 | N.A. | N.A. |
| CALCIUM | 3 - 7 | 1305-78-8 | N.A. | N.A. |
| SILICON | 10 - 30 | 67762-90-7 | N.A. | N.A. |
| SODIUM | 1 - 5 | 12401-86-4 | N.A. | N.A. |
| BORON | 3 - 7 | 1303-86-2 | N.A. | N.A. |
| SILICA, QUARTZ | 3 - 7 | 14808-96-6 | N.A. | N.A. |
| TITANIUM DIOXIDE | 1 - 5 | 13463-67-7 | > 10 000 mg/kg (ORAL, RAT) | 6.8 mg/L (INHALATION, RAT, 4 H) |
| FERRIC OXIDE | 1 - 5 | 1309-37-1 | >5000 mg/kg (ORAL, RAT) | N.A. |

*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, RUST RED FLUID WITH MILD ODOUR.
ODOUR THRESHOLD: NOT AVAILABLE
SPECIFIC GRAVITY: APPROXIMATELY 1.6
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
POWERFUL ACIDS AND OXIDIZING AGENTS.
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: IRRITATING TO THE RESPIRATORY TRACT. REFER TO EFFECTS OF ACUTE AND CHRONIC EXPOSURE.
INGESTION: THIS PRODUCT IS LOW IN ACUTE TOXICITY.
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. OVEREXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST MAY CAUSE:
1/ SILICOSIS, A FORM OF PROGRESSIVE PULMONARY FIBROSIS.
2/ SCLERODERMA, AN IMMUNE SYSTEM DISORDER MANIFESTED BY A FIBROSIS OF THE LUNGS, SKIN AND OTHER INTERNAL ORGANS.
SILICOSIS INCREASES THE RISK OF TUBERCULOSIS.
RECENT EVIDENCE SUGGESTS AN ASSOCIATION BETWEEN RESPIRABLE EXPOSURE AND A HIGHER INCIDENCE OF KIDNEY LESIONS.
CRYSTALLINE SILICA INHALED FROM OCCUPATIONAL SOURCES IS CLASSIFIED (IARC) AS CARCINOGENIC TO HUMANS.
PROLONGED INHALATION OF IRON OXIDE FUME MAY LEAD TO SIDEROSIS, A BENIGN PNEUMOCONIOSIS THAT EXHIBITS NO ADVERSE HEALTH EFFECTS.

EXPOSURE LIMITS - TIME WEIGHTED

AVERAGE EXPOSURE VALUES (TWAEV): **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.

SILICA: 0.1 mg./m³
TITANIUM DIOXIDE 10.0 mg./m³
FERRIC OXIDE: 10.0 mg./m³

IRRITANCY OF PRODUCT: REFER TO ROUTE OF ENTRY
SENSITIZATION OF PRODUCT: UNKNOWN
CARCINOGENICITY OF PRODUCT: REFER TO CHRONIC EFFECTS. TITANIUM DIOXIDE DUST IS CONSIDERED POSSIBLY CARCINOGENIC TO HUMANS BASED ON ANIMAL EVIDENCE, WHICH SHOWS THAT HIGH CONCENTRATIONS OF PIGMENT-GRADE (POWDERED) AND ULTRAFINE TITANIUM DIOXIDE DUST CAUSES RESPIRATORY TRACT CANCER IN RATS EXPOSED BY INHALATION AND INTRATRACHEAL INSTILLATION.
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 (<0.07%). 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. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.
SKIN EXPOSURE: WASH THOROUGHLY AND APPLY MOISTURIZING HAND CREAM TO DRIED, REDDENED SKIN.
INGESTION: GIVE 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: JUNE 5, 2013

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