

MATERIAL SAFETY DATA SHEET

SECTION I PREPARATION AND PRODUCT INFORMATION

MANUFACTURER: THE POTTERY SUPPLY HOUSE LTD.
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OAKVILLE, ONTARIO L6L 3X4 FAX: 905 849-0001
MATERIAL NAME: **CLAY BODY No. 455**
MATERIAL USE: A MOIST STONEWARE CLAY FOR MODELING AND POTTING

SECTION II HAZARDOUS INGREDIENTS

| INGREDIENT | % | C.A.S.# | LD50 | LC50 |
|--|-------------|--|----------------------|----------------------|
| CRYSTALLINE SILICA, COMBINED: QUARTZ CRISTOBALITE TRIDYMITE | 15.0 - 40.0 | 14808-60-7 14464-46-1 15468-32-3 | N.A. N.A. N.A. | N.A. N.A. N.A. |
| MANGANESE DIOXIDE* | 0.1 - 1.0 | 1313-13-9 | N.A. | N.A. |

*THE MAJOR CONSTITUENT OF THE CLAY BODY INGREDIENT, MANGANESE ORE. THE CONCENTRATION OF MANGANESE ORE AND MANGANESE DIOXIDE IN THIS CLAY BODY IS BELOW THE MSDS REQUIRED DISCLOSURE LEVEL (1%).

SECTION III PHYSICAL DATA

PHYSICAL STATE: MIXED PHASE, APPROX. 80% SOLID (SILICATE MINERALS), 20% LIQUID (WATER)
ODOUR / APPEARANCE: GREY-BROWN, WITH EARTHY ODOUR
ODOUR THRESHOLD: NOT AVAILABLE
SPECIFIC GRAVITY: NOT AVAILABLE
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: MAY LIBERATE CARBON MONOXIDE, CARBON DIOXIDE AND SULPHUR DIOXIDE.
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:

STABLE UNDER NORMAL CONDITIONS OF USE
POWERFUL OXIDIZING AGENTS SUCH AS
FLUORINE, CHLORINE TRIFLUORIDE AND OXYGEN
DIFLUORIDE. MANGANESE MINERAL ORE IS
INCOMPATIBLE WITH EASILY OXIDIZABLE
SUBSTANCES SUCH AS SULPHUR, SULFIDES,
PHOSPHIDES, ETC.

CONDITIONS OF REACTIVITY:
HAZARDOUS DECOMPOSITION PRODUCTS:

NONE KNOWN.
WHEN HEATED ABOVE 260°C, SO₂, CO AND CO₂
GASES ARE RELEASED. MANGANESE FUMES MAY BE
RELEASED WHEN HEATED TO THE MATURING
TEMPERATURE OF THE CLAY (1200°C)

SECTION VI TOXICOLOGICAL PROPERTIES

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| SKIN ABSORPTION: | NONE |
| EYE CONTACT: | DRY CLAY DUST MAY CAUSE ABRASION OF THE CORNEA. |
| INHALATION: | MAY CAUSE DAMAGE TO THE LUNGS BY INHALATION OF DUST. |
| INGESTION: | UNLIKELY TO BE TOXIC BY INGESTION. INFORMATION IS UNAVAILABLE CONCERNING POSSIBLE HAZARDS ARISING FROM INGESTING LOW LEVELS OF MANGANESE ORE. |
| EFFECTS OF ACUTE EXPOSURE: | MAY CAUSE DRYING AND REDDENING OF THE SKIN. MAY CAUSE EYE IRRITATION. |
| EFFECTS OF CHRONIC EXPOSURE: | 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. SOME STUDIES SHOW AN INCREASED INCIDENCE IN BRONCHITIS AND EMPHYSEMA IN WORKERS EXPOSED TO RESPIRATORY CRYSTALLINE SILICA. CRYSTALLINE SILICA INHALED FROM OCCUPATIONAL SOURCES IS CLASSIFIED (IARC) AS CARCINOGENIC TO HUMANS. 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. |
| EXPOSURE LIMITS - TIME WEIGHTED AVERAGE EXPOSURE VALUES (TWA EV): | SILICA, QUARTZ 0.1 mg./m ³ SILICA, CRISTOBALITE 0.05 mg./m ³ SILICA, TRIDYMIT 0.05 mg./m ³ MANGANESE DIOXIDE, AS MANGANESE 0.2 mg./m ³ |
| IRRITANCY OF PRODUCT: | REFER TO ROUTE OF ENTRY |
| SENSITIZATION OF PRODUCT: | NO KNOWN EFFECTS |
| CARCINOGENICITY OF PRODUCT: | REFER TO CHRONIC EFFECTS. THIS PRODUCT IS FORMULATED WITH BALL CLAY CONTAINING TRACE AMOUNTS (A FEW PARTS PER TRILLION TO 3 PARTS PER BILLION) OF 2,3,7,8-TCDD (DIOXIN), A KNOWN (IARC) HUMAN CARCINOGEN. |
| TERATOGENICITY OF PRODUCT: | NO KNOWN EFFECTS |
| MUTAGENICITY OF PRODUCT: | NO KNOWN EFFECTS |
| SYNERGISTIC MATERIALS: | NONE KNOWN |

SECTION VII PREVENTATIVE MEASURES

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| PERSONAL PROTECTIVE EQUIPMENT TO BE USED: | AN APPROVED RESPIRATOR AND PROTECTIVE EYE WEAR SHOULD BE WORN WHENEVER THE TOOLING, CRUSHING OR GRINDING OF DRIED CLAY OBJECTS GIVES RISE TO RESPIRABLE DUST. INDIVIDUALS WHO ARE PARTICULARLY SENSITIVE TO THE SKIN-DRYING EFFECTS OF CLAY SHOULD WEAR PROTECTIVE LATEX GLOVES. |
| ENGINEERING CONTROLS TO BE USED: | IF RESPIRABLE DUST IS RAISED, PROVISION SHOULD BE MADE FOR ADEQUATE LOCAL EXHAUST. WHEN FIRING, USE A DOWNDRAFT OR OVERHEAD HOOD-TYPE EXHAUST |
| PROCEDURES TO BE FOLLOWED IN CASE OF SPILL: | NOT APPLICABLE |
| WASTE DISPOSAL: | IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL LAWS. NOT A HAZARDOUS WASTE. |
| HANDLING PROCEDURES: | NONE REQUIRED. |
| STORAGE REQUIREMENTS: | NONE |
| SPECIAL SHIPPING INFORMATION: | NONE |

SECTION VIII FIRST AID MEASURES

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| EYE EXPOSURE: | FLUSH THOROUGHLY WITH WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. |
| SKIN EXPOSURE: | WASH THOROUGHLY AND APPLY MOISTURIZING HANDCREAM TO DRIED, REDDENED SKIN. |
| INGESTION: | UNLIKELY TO REQUIRE TREATMENT. FOR MASSIVE INGESTION, SEEK MEDICAL ATTENTION. |
| INHALATION: | NO SPECIFIC FIRST AID IS NECESSARY SINCE THE ADVERSE HEALTH EFFECTS ASSOCIATED WITH EXPOSURE TO CRYSTALLINE SILICA RESULT FROM CHRONIC EXPOSURES. |

SECTION IX PREPARATION INFORMATION

MSDS PREPARED BY: JON WALLS
PREPARATION DATE: FEBRUARY 17, 2011

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