

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: **CLAY BODY MIX (RED AND WHITE)**
MATERIAL USE: A MOIST NON-FIRING MODELING CLAY OF VARIABLE COMPOSITION.

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	%	C.A.S.#	LD50	LC50
SILICA, CRYSTALLINE INCLUDING, QUARTZ	0.1 - 36.8	14808-60-7	N.A.	N.A.
TRIDYMITITE		15468-32-3	N.A.	N.A.
CRISTOBALITE		14464-46-1	N.A.	N.A.
TALC	0.0 - 35.3	14807-96-6	N.A.	N.A.
TREMOLITE (NON-ASBESTOSFORM)	0.0 - 14.1	14567-73-8	N.A.	N.A.
IRON OXIDES	0.0 - 14.9			
FERRIC-FERROUS		1317-61-9	N.A.	N.A.
FERRIC		1309-37-1	>5000 mg/kg (rat).	N.A.
MANGANESE DIOXIDE*	0.0 - 0.8	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: VARIABLY GREY TO TERRA COTTA RED, 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.
SENSITIVITY TO MECHANICAL IMPACT: NONE
SENSITIVITY TO STATIC DISCHARGE: NONE

SECTION V REACTIVITY DATA

CONDITIONS UNDER WHICH PRODUCT IS CHEMICALLY UNSTABLE: NONE KNOWN
NAME OF INCOMPATIBLE SUBSTANCES: CONTACT WITH STRONG ACIDS CAUSES THE RELEASE OF CARBON DIOXIDE. CALCIUM CARBONATE IS INCOMPATIBLE WITH FLUORINE, ALUM AND AMMONIUM SALTS. MANGANESE MINERAL ORE IS INCOMPATIBLE WITH EASILY OXIDIZABLE SUBSTANCES SUCH AS SULPHUR, SULFIDES, PHOSPHIDES, ETC.
CONDITIONS OF REACTIVITY: CONTACT WITH STRONG ACIDS.
HAZARDOUS DECOMPOSITION PRODUCTS: MAY RELEASE CARBON DIOXIDE, CARBON MONOXIDE AND SULPHUR DIOXIDE WHEN HEATED ABOVE 260° C. MANGANESE FUMES MAY BE RELEASED IF HEATED TO 1200°C).

SECTION VI TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	SKIN CONTACT:	MECHANICAL IRRITATION IS POSSIBLE BUT UNLIKELY. REFER TO ACUTE EFFECTS.
	SKIN ABSORPTION:	NONE
	EYE CONTACT:	DRIED CLAY DUST MAY CAUSE EYE IRRITATION.
	INHALATION:	MAY CAUSE DAMAGE TO THE LUNGS BY INHALATION OF DUST. REFER TO CHRONIC EFFECTS.
	INGESTION:	UNLIKELY TO BE TOXIC BY INGESTION. INFORMATION IS UNAVAILABLE CONCERNING POSSIBLE HAZARDS ARISING FROM INGESTING LOW LEVELS OF MANGANESE ORE.

SECTION VI TOXICOLOGICAL PROPERTIES, CONTINUED....

EFFECTS OF ACUTE EXPOSURE:	MAY CAUSE DRYING AND REDDENING OF THE SKIN. MAY CAUSE EYE IRRITATION. REPEATED MASSIVE APPLICATIONS IN OPEN WOUNDS MAY CAUSE GRANULOMA FORMATION.
EFFECTS OF CHRONIC EXPOSURE:	PROLONGED EXPOSURE TO EXCESSIVE AIRBORNE CONCENTRATIONS OF TALC CAN RESULT IN SCARRING OF THE LUNGS (PNEUMONCONIOSIS) CAUSING COUGH OR SHORTNESS OF BREATH AND TO PLEURAL THICKENING (USUALLY, NO SYMPTOMS). 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 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. 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 (TWAEV):	SILICA, QUARTZ 0.1 mg./m ³ CRISTOBALITE 0.05 mg./m ³ TRIDYMITE 0.05 mg./m ³ TALC 2.0 mg./m ³ MANGANESE DIOXIDE, AS MANGANESE 0.2 mg./m ³ IRON OXIDE 5.0 mg./m ³ (ACGIH)
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

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 SYSTEM
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

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: 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: NOVEMBER 17, 2009

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