

# 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: **CLAY BODY No. 580**  
MATERIAL USE: A MOIST STONEWARE CLAY FOR MODELING AND POTTING

## SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	%	C.A.S.#	LD50	LC50
CRYSTALLINE SILICA INCLUDING, QUARTZ	4.7 - 24.7	14808-60-7	N.A.	N.A.
TRIDYMITE		15468-32-3	N.A.	N.A.
CRISTOBALITE		14464-46-1	N.A.	N.A.

## SECTION III PHYSICAL DATA

PHYSICAL STATE: MIXED PHASE, APPROX. 80% SOLID (SILICATE MINERALS), 20% LIQUID (WATER)  
ODOUR / APPEARANCE: GRAY- 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.  
EXPLOSION DATA,  
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: NONE KNOWN  
CONDITIONS OF REACTIVITY: NONE KNOWN  
HAZARDOUS DECOMPOSITION PRODUCTS: WHEN HEATED ABOVE 260°C, SO<sub>2</sub>, CO AND CO<sub>2</sub> GASES ARE RELEASED.

## SECTION VI TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT: MECHANICAL IRRITATION IS POSSIBLE BUT UNLIKELY.  
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.

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.  
CRYSTALLINE SILICA INHALED FROM OCCUPATIONAL SOURCES IS CLASSIFIED (IARC) AS CARCINOGENIC TO HUMANS.

## SECTION VI TOXICOLOGICAL PROPERTIES CONT'D....

EXPOSURE LIMITS - TIME WEIGHTED AVERAGE	EXPOSURE VALUES (TWAEV):	SILICA, QUARTZ	0.1 mg./m <sup>3</sup>
		CRISTOBALITE	0.05 mg./m <sup>3</sup>
		TRIDYMITTE	0.05 mg./m <sup>3</sup>
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
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 10, 2009

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