

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

MATERIAL: CORDIERITE CERAMIC
PRODUCT NAME - IDENTIFIER: INFRARED HEATING TILE

MANUFACTURER NAME:		SUPPLIER NAME:	
Apogee Ceramics Inc.		Apogee Ceramics Inc.	
STREET ADDRESS: 71 Folsetter Dr.		STREET ADDRESS: 71 Folsetter Dr.	
CITY: Paris, Ontario	COUNTRY: Canada	CITY: Paris, Ontario	COUNTRY: Canada
POSTAL CODE: N3L 0E2	PHONE: 519-442-3636	POSTAL CODE: N3L 0E2	PHONE: 519-442-3636

SECTION 2 – HAZARD IDENTIFICATION

HAZARDOUS INGREDIENTS	%	UN. NA OR CASE NUMBERS:	LD/50 OF MATERIAL:
N/A	N/A	N/A	N/A

All products are fired to a minimum of 1250 °C and are considered to be chemically inert. Product is considered a ceramic article and in its intended use does not pose a health hazard. Machining of the tile may produce airborne dust.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME: Magnesium iron alumino-silicate	CHEMICAL FAMILY: Clay	CHEMICAL FORMULA: (Mg, Fe) ₂ Al ₄ Si ₅ O ₁₈ *nH ₂ O
MOLECULAR WEIGHT:	MATERIAL USE: MANUFACTURING END USE	
OXIDE CONTENT:	Al ₂ O ₃ : 28.10 %	
	SiO ₂ : 50.40 %	
	CaO: 0.65 %	
	MgO: 17.6 %	
	NaO ₂ : 0.10 %	
	Fe ₂ O ₃ : 1.31 %	
	TiO ₂ : 0.94 %	
	K ₂ O: 0.20 %	

MATERIAL SAFETY DATA SHEET

SECTION 4 - FIRST AID MEASURES

NOTE: In case of eye injury or severe cuts from sharp broken ceramic fragments consult a physician immediately.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABILITY YES () NO (X): IF YES, UNDER WHICH CONDITIONS?			
MEANS OF EXTINCTION:			
SPECIAL PROCEDURE:			
FLASH POINT (°C) AND METHOD: N/A	UPPER EXPLOSION (% BY VOLUME): N/A	LOWER EXPLOSION LIMIT (% BY VOL.): N/A	
AUTO IGNITION TEMPERATURE (°C): N/A	TDG FLAMMABILITY CLASSIFICATION: N/A	HAZARDOUS COMBUSTION PRODUCTS: N/A	
EXPLOSION DATA: SENSITIVITY TO IMPACT: N/A	SENSITIVITY TO STATIC DISCHARGE: N/A	EXPLOSIVE POWER: N/A	RATE OF BURNING: N/A

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Not considered an environmental hazard.

SECTION 7 – HANDLING AND STORAGE

Store product in a dry area. If tiles become wet during storage steam may be released when heated in application.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Nuisance dust if machined: Exposure limit 5 mg/m^3 . Wear an approved dust mask or respirator in absence of dust collection engineering controls.

Protective eyewear and gloves recommended in case of broken ceramic fragments.

MATERIAL SAFETY DATA SHEET

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: GAS () LIQUID () SOLID (X)		ODOUR AND APPEARANCE: ODOURLESS/YELLOW WHITE		ODOUR THRESHOLD (PPM): N/A
VAPOUR PRESSURE (mm Hg): N/A	FREEZING POINT (°C): N/A	VAPOUR DENSITY (AIR-1): N/A	EVAPORATION RATE: N/A	BOILING POINT (°C): N/A
% VOLATILE (BY VOL.): N/A	SOLUBILITY IN WATER (20 °C): N/A	BULK DENSITY: 1.33 g/cc. TYPICAL	SPECIFIC GRAVITY: 2.55 g/cc	COEFFICIENT WATER OIL DIST: N/A

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY

YES (X), NO () IF NO UNDER WHICH CONDITIONS?

COMPATIBILITY WITH OTHER SUBSTANCES

YES (X), NO () IF NO, WHICH ONES?

REACTIVITY UNDER WHICH CONDITIONS:

NON-REACTIVE

HAZARDOUS DECOMPOSITION PRODUCTS:

N/A

Product is considered to be chemically stable. No dangerous reaction known under conditions of normal use.

SECTION 11 – TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY:					
SKIN CONTACT ()	SKIN ABSORPTION ()	EYE CONTACT ()	INHALATION ACUTE (X)	INHALATION CHRONIC (X)	INGESTION ()
EFFECTS OF ACUTE EXPOSURE TO MATERIAL: NO EFFECT OTHER THAN AS NUISANCE DUST (WHEN MACHINING IS REQUIRED).					
EFFECTS OF CHRONIC EXPOSURE: LONG TERM EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA CAN CAUSE SILICOSIS.					
LD/50 OF MATERIAL: N/A	LC/50 OF MATERIAL: N/A	EXPOSURE LIMIT OF MATERIAL: 5 mg/m ³		IRRITANCY OF MATERIAL: N/A	
SENSITIZING CAPABILITY OF MATERIAL: N/A	CARCINOGENICITY OF MATERIAL: N/A	REPRODUCTIVE EFFECTS OF MATERIAL: N/A		SYNERGISTIC MATERIALS: N/A	

MATERIAL SAFETY DATA SHEET

SECTION 12 – ECOLOGICAL INFORMATION

No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with local and national regulations.

SECTION 14 – TRANSPORT INFORMATION

N/A

SECTION 15 – REGULATORY INFORMATION

N/A

SECTION 16 – OTHER INFORMATION

PREPARED BY (GROUP, DEPARTMENT, ETS) Production Department. Apogee Ceramics Inc.	PHONE NUMBER: 519-442-3636	DATE PREPARED/REVIEWED: April 27, 2022
--	--	--