MATERIAL SAFETY DATA SHEET

Effective Date:

EMERGENCY TELEPHONE NO: 1-800-222-1222 Or Dial 911 American Poison Control Center

Main Street Art 450 S. Alpine Hwy Alpine, Utah 84004

SECTION 1 - PRODUCT IDENTIFI	CATION		
Material Name: Porcelain Ti	le	NOT A CON	FROLLED PRODUCT
Chemical Family:	Chemical Formula:	-	Molecular Weight:
Inorganic Compound	Mixture		Not applicable
Material Use:		DOT Identification N	lo.
Aggregates		None	
Trade Name and Synonyms:			
Clay Tile, Porcelain Tile			

SECTION 2 - COMPSITION AND INFORMATION ON INGREDIENTS				
COMPONENTS CHEMICAL NAME	CAS REGISTRY NO.	% BY WEIGHT (approximate)	MSHA/OSHA PEL	ACGIH TLV-TWA
Talc, Mg3Si4O10(OH)2	14807-96-6	Oct-50	20 mppcf	2 mg/m3
Silicon Dioxide, Sio2 Crystalline Silica as Quartz	14808-60-7	14-18	(R)10 mg/m3 / (% SiO2+2) § (T) 30 Mg/m3 / (% SiO2 + 2) §	(R) 0.1 mg/m3 Not Established
Calcium Carbonate, CaCO3	471-34-1	<1.0	(R) 5 mg/m3 / (T) 15 mg/m3	Not Established (T) 10 mg/m3
Surface glaze may contain trace amts of Cadmium, Zinc, Chromium compounds	7440-43-9 7440- 66-6 7440-47-3	< 1.0 < 1.0 < 1.0	Not Established	Not Established

* The composition of SiO2 may be up to 100 % crystaline silica. (R): Respirable (T): Total § Crystaline silica is normally measured as respirable dust. The OSHA standard also presents a formula for calculation of the PEL based on total dust: 30 mg/m3 / (% Sio2 + 2). SILICA CONTAINING RESPIRABLE DUST THAT CABN ACCUMULATE IN THE LUNGS MAY LEAD TO ADUTE SILICOSIS, A RAPIDLY PROGRESSIVE, INCURABLE LUNG DISEASE. AVOID DUST PRODUCTION BY CUTTING UNDER WATER, AND ALWAYS WEAR PROPER PROTECTIVE BREATHING GEAR AS OUTLINED IN SECTION 8. HAND, EYE, AND OTHER BODY PARTS MAY NEED PROTECTION IF CUTTING OR REMOVING INSTALLED TILES. OTHER HAZARDS ARE DUE TO THE EXCESSIVE WEIGHT OF PORCELAIN WHEN STACKED. USE CRATES THAT WILL NOT BREAK, AND PALLET RAKS RATED HIGHER THAN THE LOAD BEING STORED. BE AWARE OF UNSECURED STACKS OF TILE AND BREAKING CRATES. PORCELAIN TILE PRODUCTS ARE MIXTURES OF PREDOMINANTLY CLAYS AND OTHER NATURAL OCCURING MINERALS THAT HAVE BEEN MIXED WITH WATER AND FIRED TWICE N A HIGH TEMPERATURE KILN. PROPER INSTALLATION INSURES THESE PRODUCTS ARE SAFE.

Aquabella

SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Tiles are brittle, solid, and manufactured in various colors,	Specific Gravity:
shapes, and sizes. Odorless. Glaze surface color varies and	
is often a different color than the tile's body	1.2 - 1.5
Boiling Point, Melting Point	Vapor Density in Air (Air = 1)
Not applicable, Not available (>2000 F)	Not applicable
Vapor Pressure	% Volatile, by Volume
Not applicable	0%
Evaporation Rate	Solubility in Water
0%	Negligible

SECTION 4 - STABILITY AND REACTIVITY DATE Stability Hazardous Polymerization Stable Will not occur Conditions to Avoid Avoid contact with incompatible materials (see below) and exposure to crystalline silica (quartz) dust particles, usually generated while cutting, crushing, sawing, or removing. Incompatibility (material to avoid) Avoid contact with acids. Some acids damage and/or discolor the surface of porcelain. Hazardous Decomposition Products These products do not contain asbestos. Under normal conditions these products do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary. The main concern would come from crytalline silica being released as dust while cutting or removing, and being inhaled.

SECTION 5 - HAZARDS AND TOXICITY

Exposure Limits

When exposure to this product and other chemicals is concurrent, the exposure limit must be defined in the workplace. Unless specified otherwise, limits are eight-hour time-weighted averages (TWA). Limits for cristobalite and tridymite (other forms of crystaline silica) are equal to one-half of the limits for quartz.

Inhalable Particulate Limits

" 2001 ACGIH TLV® (inhalable /total particulate, not otherwise specified) not established

" 2001 ACGIH TLV[®] = .1 mg/m3 (respirable particulate, not otherwise specified)

" OSHA PEL = 30 mg/m3 (total particulate, not otherwise regulated)

" OSHA PEL = 10 mg/m3 (respirable particulate, not otherwise regulated).

Respirable Limit, Crystalline Silica (SiO2 or Quartz)

ACGIH TLV[®] = 0.1 mg/m3; MSHA and OSHA PEL = 10 mg/m3 (%SiO2 + 2), for respirable

dust containing crystalline silica.

Total Dust Limits	, Respirable and Nonresp	pirable	
	has not been establishe		
NIOSH IDEL = 25	mg/m3.		
Route of Entry			
X Skin Contact	t	X Eye Contact	X Acute Inhalation
Skin Absorp	otion	X Ingestion	X Chronic Inhalation
Effects of Acute E	Exposure to Product		
Skin Eyes	a potential for cuts t expected to be a sig Acute effects such a	to the hands and exposed body parts by nificant exposure route. s eye irritation may occur with high level	ect contact with broken or cut tile produces mechanical abrasion. Skin absorption is not Is of dust exposure during dry cutting or fort or pain, local redness, and swelling of
	the conjunctiva.		
Inhalation			
	abrasion. Exposures chest pain, shortnes very rare cases, sym respirable crystalling generated from tile	in <u>excess</u> of allowable occupational exponsion of breath, inflammation of mucous me optoms of acute silicosis (a nodular pulmo e silica, may develop following exposure	onary fibrosis), associated with exposure to
Ingestion			andling operations are not likely to cause
aggravate existing eye conditions.	tile for construction pur g respiratory system disc	ease(s) and/or dysfunctions. Exposure to	o dust may aggravate existing skin and or
No chronic effect chemically combi- at any time poses exposure limits o silicosis (a nodula other airway dise with silicosis will ceased. Symptor enlargement and inhalation of dust pneumoconiosis, an increased risk emphysema and to animals in labo	ined with any other subs s a potential health haza f respirable crystalline si ar pulmonary fibrosis), and eases. Acute silicosis is a exhibit symptoms (signs ms include (but are not li /or failure, weight loss, t may result in the devel and pulmonary fibrosis, of mycobacterial or fung lung cancer. Respirable poratory tests than respira	re to intact tile. Quartz is a natural const stance. Porcelain tile contains 14% to 18 rd. Repeated overexposure to very high lica (quartz, cristobalite, tridymite) for pend is associated with pulmonary tubercul rapidly progressive, incurable lung disea) of the disease. Symptoms can appear a mited to): shortness of breath, diminishe and chest pain. These symptoms can aris opment of autoimmune disorders, respir chronic renal disease, and other adverse gal infections. Smoking may increase the	% silica. Exposure to silica-containing dust levels above allowable occupational eriods of six months or more have caused osis (TB), bronchitis, emphysema, and se that is typically fatal. Not all individuals t any time, even years after exposure has ed work capacity, cough, fever, right heart e from many other causes. Excessive ratory disease, including silicosis, e health effects. Persons with silicosis have risk of developing lung disorders, including cles has been shown to be more hazardous of similar size. Recent epidemiologic
Irritanay of Dro-	ict	Consistization to Draduct	Supergistic Materials
Irritancy of Produ		Sensitization to Product	Synergistic Materials
Eyes		None	None reported

SECTION 6 - FIRST AID MEASURES

Eyes

Immediately rinse contaminated eye(s) with gently running lukewarm water (saline solution is preferred) for at least 15 minutes, while holding the eyelid(s) open. In the case of an embedded particle in the eye, or if irritation occurs, consult a physician. Beyond flushing, do not attempt to remove material from the eye(s).

Skin

Carefully and gently, brush the contaminated body surfaces in order to remove all traces of stone dust. Use a brush, cloth, or gloves. Remove all contaminated clothing. Wash work clothes after each use. Wash dust-exposed skin with soap and water before eating or drinking. Contact a physician if irritation persists or later develops.

Inhalation

Move source of dust away from person, or move victim to source of fresh air. Dust in throat and nasal passages should clear spontaneously. Obtain medical attention immediately. If victim does not breathe, give artificial respiration. Contact a physician immediately.

Ingestion

If victim is conscious, wash out mouth with water. Have conscious person drink several glasses of water. Induce vomiting. Contact a physician immediately. Never give anything by mouth to an unconscious or convulsing person.

General Advice

Consult a physician for all exposures except minor instances of inhalation.

SECTION 7 - REGULATORY INFORMATION

Porcelain is listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). In October 1996, an IARC Working Group reassessing crystalline silica, a component of porcelain tile, designated respirable crystalline silica as carcinogenic (Group 1). The NTP's Report on Carcinogens, 9th edition, lists respirable crystalline silica as a "known human carcinogen." In year 2000, the American Conference of Governmental Industrial Hygienists (ACGIH) listed respirable crystalline silica (quartz) as a suspected human carcinogen (A-2). These classifications are based on sufficient evidence of carcinogenicity in certain experimental animals and on selected epidemiological studies of workers exposed to crystalline silica.

CALIFORNIA PROPOSITION 65: WARNING (Safe Drinking Water and Toxic Enforcement Act of 1986)

Component Porcelain does not appear on the above regulatory listing. However, crystalline silica is a component of this product. California regulates crystalline silica (airporne particles of respirable size) under the state of California Safe Drinking Water and Toxic Enforcement Act of 1986 as a cause of cancer.

CWA 311 – Clean Water Act List of Hazardous Substances

Porcelain does not appear on the Clean Water Act (CWA) list of hazardous substances.

Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) / The Emergency Planning and "Community Right-to-Know" Act (EPCRA)/ Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

Compenent Porcelain has been reviewed against the following regulatory listings;

♦ Section 302 - Emergency Planning Notification. Extremely Hazardous Substances (EHS) List and Threshold Planning Quality (TPQ). (40 CFR, Part 355, Section 30): <u>Not Listed.</u>

♦ Section 304 - Emergency Release Notification. Extremely Hazardous Substances (EHS) and Reportable Quantity (RQ) List. (40 CFR, Part 355, Section 40); <u>Not listed</u>.

Section 311/312 - Hazard Categories (40 CFR, Part 370): This product is regulated under CFR 1910.
 1200 (OSHA Hazard Communication).

Section 313 - Toxics Release Inventory (TRI). Toxic Chemical List (40 CFR, Part 372): <u>Not Listed.</u>

Transportation - Hazardous Materials Regulations (USA) & Transportation of Dangerous Goods (TDG) Regulations (Can). Porcelain tile does not appear on the above regulatory listings.

Toxic Substances Control Act (TSCA)

All naturally occuring components of this product are automatically included in the USEPA TSCA Inventory List per 40 CFR 710.4 (b). Porcelain tile is exempt from reporting under the inventory update rule.

Canadian Environmental Protection Act (CEPA)

Quartz, a component of this product, appears on the Domestic Substances List (DSL).

ANS/NSF 60 - Drinking Water Treatment Additives.

Not applicable.

FDA - U.S. Food and Drug Administration, Department of Health and Human Services **Not applicable.**

SECTION 8 - F	PREVENTATIVE MEASURES, PERSONAL PROTECTION, AND CONTROLS
Personal Protecti	ve Equipment (PPE)
	Wear clean, dry gloves, full-length pants over boots, long sleeved shirt buttoned at the neck, head protection, and approved eye protection selected for the working conditions.
Eyes	
	Wear safety glasses with side shields as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated.
Skin	
	Clothing, boots, and gloves that fully covers all skin provides the best protection.
Respiratory Prote	
	Wear a NIOSH approved dust respirator for dust levels that exceed or are likely to exceed an 8-hr TWA of .1 mg/m3.
	Wear a NIOSH approved HEPA filter respirator for respirable quartz levels that exceed or are likely to exceed an 8-hr TWA of 0.5 mg/m3.
	♦ Wear a NIOSH approved positive pressure, full-face respirator or equivalent if dust levels exceed or are likely to exceed an 8-hr TWA of 5 mg/m3.
	♦ Respirator use must comply with applicable MSHA or OSHA standards, which include provisions
	for a user-training program, respirator repair and cleaning, respirator fit testing, and other requirements.
Hygiene	
	Wash dust-exposed skin with soap and water before eating, drinking, smoking, and using toilet
	facilities. Wash work clothes after each use. Avoid breathing dust. Avoid skin and eye contact.
Engineering Cont	rols
	Ventilation: Use local exhaust, general ventilation, or natural ventilation adequate to maintain
	exposures below appropriate exposure limits.
	Respirable dust and quartz levels should be monitored regularly.
	Dust and quartz levels in excess of appropriate exposure limits should be reduced by
	all feasible engineering controls including (but not limited to) wet suppression,
	ventilation, process enclosure, and enclosed employee work stations.

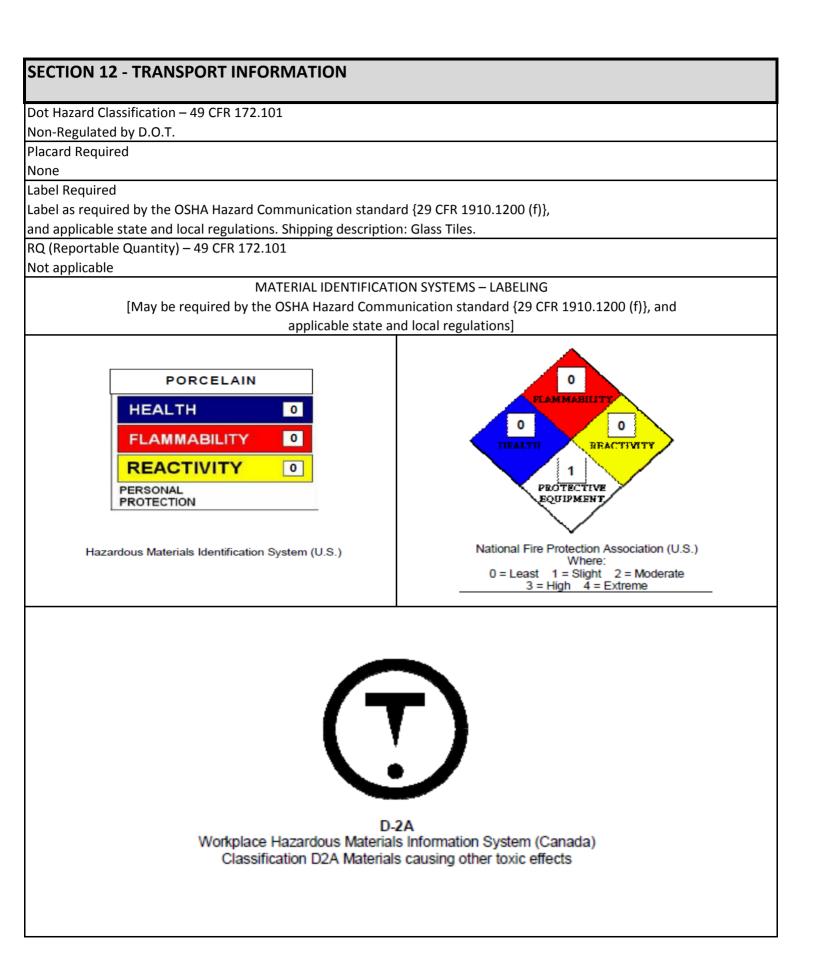
SECTION 9 - STORAGE AND HANDLING PRECAUTIONS		
Protection	Respirable crystalline silica-containing dust may be generated during processing, cutting, drilling, routing, storage, and removal. Do not breathe dust. The personal protection and controls identified in Section 8 of this MSDS should be used as appropriate. Avoid contact with skin and eyes. Always wear protection from breathing dust while processing.	
Storage		
	Do not store near food and beverages or smoking materials. Shelf life is unlimited.	

Handling

This product is not intended or designed for, and should not be used as an abrasive blasting medium or for foundry applications. Do not stand on piles of material, it may be unstable. Use appropriate equipment for handling large pieces: fork lift, jacks, etc. and follow all safety rules. Store tiles with appropriately strong racks and crates designed to handle large

Protection	
	Spilled material where dust can be generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust.
	The personal protection and controls identified in Section 8 of this MSDS should be used as appropriate.
	Wetting of spilled material, vacuuming, and/or use of respiratory protective equipment, eye protection, and protective clothing may be necessary.
	On the try sweep spilled material.
	Prevent spilled material from inadvertently entering streams, drains, or sewers.
	Train all personnel on handling and safety rules for working with porcelain, forklifts, sampling, et as needed.
Waste Disposal	
	Collect and reuse clean material.
	Waste materials should be disposed of in a landfill certified to accept such materials in accordanc with applicable federal, state, provincial, and local environmental laws and regulations.

SECTION 11 - FIRE AND EXPLO	DSION HAZARD D	ΑΤΑ	
Flamable			
Yes 🗆 No	Х		
Extinguishing Media			
Porcelain does r	not burn. Use extingu	ishing media approp	riate to surrounding fire conditions.
Special Fire Fighting Procedures			
Porcelain is non	-flammable. Silica dis	solves readily in hyd	rofluoric acid producing a corrosive gas –
silicon tetra fluc			
Flash Point (C) and Method	Upper Flammable	limit	Lower flammable limit
Not applicable	Not applicable		Not applicable
Auto Ignition Temperature (C)	TDG Flammability	Classification	Hazardous Combustion Products
Not applicable	Not applicable		None
Dangerous Combustion Products	None		
EXPLOSION DATA			
Sensitivity to Chemical Impact	Rate of Burning	Explosive Power	Sensitivity to Static Discharge
Not applicable	Not applicable	Not applicable	Not applicable



ECTION 13 -	GLOSSARY
SECTION 15 -	GLOSSANT
Agencies and Reg	gulations
	ACGIH: American Conference of Government Industrial Hygienists
	CFR: US Code of Federal Regulations
	DOT: US Department of Transportation
	DSL: Domestic Substances List
	IARC: International Agency for Research on Cancer
	NIOSH: National Institute for Occupational Safety and Health
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration, US Department of Labor
	SARA: Title III of the Superfund Amendments and Reauthorization Act, 1986
Abbreviations	
	♦ IDLH: Immediately Dangerous to Life and Health
	Mathematical mathematical structures of a mathematical structures and the mathematical stru
	MSHA PEL = Permissible Exposure Limit of the Mine Safety and Health Administration (MSHA)
	OSHA PEL = Permissible Exposure Limit of the Occupational Safety and Health Administration
	(OSHA)
	TLV [®] = Threshold Limit Value of the American Conference of Governmental Industrial
	Hygienists (ACGIH)
	TWA = Time-Weighted Average
Sources Used	
	NFPA, TDG, CSST, RSST, (LSRO-FASEB), Hazardous Products Act, Environment Canada,
	Enviroguide, OSHA, ACGIH, IARC, NIOSH, CFR, NTP, HSDB, EPA SRS, MSHA, Geology of
	the nonmatallics, Health Canada, APAC Inc MSDS, American Olean Monterrey Wall Tile
	MSDS 3-15-05, Marble Institute of America Technical Bulletin "Preparing a Generic MSDS
	for Natural Stone."

SECTION 14 - PREPARATION OF THIS DOCUMENT Prepared by: Other Contact: Brian Streadbeck, cell: (714) 264-8269 Brett Streadbeck, cell: (801) 691-8981 450 S. Alpine Hwy Date of Preparation: Alpine, UT 84004 06/10/2014 Notice: Aquabella (Main Street Art) believes the information contained herein is accurate. The suggested precautions and recommendations come from recognized good work practices and experience as of the date of publication. They are not necessarily all-inclusive or fully adequate in every circumstance, as one cannot anticipate all use situations. However, the suggestions should not be confused with nor followed in violation of applicable laws, regulation, rules, insurance requirements, or safety practices. In addition, one must not use this product in a manner that could cause harm. NO WARRANTY IS MADE, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.