



MATERIAL SAFETY DATA SHEET

Material Name: Architectural Stone Concepts Veneer Stone

File: ASCMSDS0011

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: Architectural Stone Concepts Stone Veneer
CHEMICAL FAMILY: Concrete (Cured)
CHEMICAL NAME: Pre-cast Concrete
SYNONYMS: Decorative Stone/Brick, Veneer Stone/Brick
MANUFACTURER: Architectural Stone Concepts
16211 N. Scottsdale Rd. #A6A-422
Scottsdale, AZ. 85254
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SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS:

<u>COMPONENT</u>	<u>CAS #</u>	<u>%(APPROX.)</u>
PORTLAND CEMENT	65-997-15-1	~30.0%
PUMICE	1332-09-8	~60.0%
IRON OXIDE	1309-37-1	~5.0%
NON-HAZARDOUS MATERIAL	N/A	~5.0%

COMPONENT RELATED REGULATORY INFORMATION

This product may be regulated, have exposure limits or other information identified as: crystalline silica.

COMPONENT INFORMATION/INFORMATION ON NON-HAZARDOUS COMPONENTS

As provided, this product is expected to produce minimal if any hazards. However, if dust is generated, this product would be considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

SECTION 3 - HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

No unusual conditions are expected from this product. Inhalation of dusts produced during cutting, sanding, or grinding of this product may cause irritation of the respiratory tract.

POTENTIAL HEALTH EFFECTS

SKIN CONTACT: Itching, irritation, rash, drying and cracking of the skin may be caused by dust from this product.

EYE CONTACT: Itching, irritation, redness, blurred vision, tearing, and scratching of the cornea may be caused by dust from this product.

INGESTION: Gastrointestinal irritation may be caused by ingestion of this product. Ingestion, however, is unlikely.

INHALATION: Irritation of the nose, throat, and respiratory tract may be caused by dusts from this product, which contains crystalline silica. Prolonged and repeated inhalation of respirable crystalline silica can cause silicosis, a chronic lung disease characterized by fibrosis and scarring of the lung tissue which can result in a decrease in lung function, breathlessness, wheezing, coughing, and sputum production. Short-term overexposure to extremely high concentrations of respirable crystalline silica can produce acute silicosis, a disease that can rapidly progress within months of initial overexposure and reportedly has caused death within a 1 to 2 year period.

CARCINOGENICITY: The International Agency for Research on Cancer (IARC) considers crystalline silica to be a carcinogen. The IARC noted that increased rates of lung cancer were reported among some workers in ore mines, quarries, foundries, ceramics, granite, and stone cutting industries; however, carcinogenicity was not detected in all industrial circumstances studied. (See Section 11 for further information)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Chronic respiratory conditions, such as asthma, or skin conditions may temporarily worsen from exposure to dust from this product.

SECTION 4 - FIRST AID MEASURES:

SKIN CONTACT: Flush skin with large quantities of water. If irritation persists, seek immediate medical attention.

EYE CONTACT: Flush eyes with plenty of clean water for 15 minutes. If irritation persists, seek immediate medical attention.

INGESTION: Ingestion of this material is unlikely; however, if ingestion does occur do not induce vomiting. Drink copious amounts of water. The person should be monitored for several days to make sure that partial or complete intestinal obstruction does not occur and should seek medical attention if necessary.

INHALATION: If inhaled, move the effected person into a fresh air environment. If breathing problems or irritation persists, seek immediate medical attention.

SECTION 5 – FIRE FIGHTING MEASURES:

FLASH POINT: None (ASTM D-3243, D-3278, D-3828)

FLAMMABLE LIMITS: Upper Flammability Limit (%) - N/A
Lower Flammability Limit (%) - N/A

FLAMMABILITY CLASSIFICATION:
Non-flammable

AUTO-IGNITION TEMPERATURE:
N/A - DIN 51794

EXTINGUISHING MEDIA:

Any appropriate for surrounding fires (This product is non-combustible).

SPECIAL FIRE FIGHTING PROCEDURES:

None identified. Suggested: Use self-contained breathing apparatus (SCBA) and protective clothing ensemble as defined in NFPA 1500.

SECTION 6 – ACCIDENTAL RELEASE MEASURES:

CONTAINMENT PROCEDURES

Scoop up materials and put into a suitable container for disposal as a non-hazardous waste. Dust from cutting, sawing, grinding, sanding or drilling of this material will settle out of the air. If concentrated on land, it can be scooped up for disposal as a non-hazardous waste.

CLEAN-UP PROCEDURES

Wear appropriate protective equipment during cleanup. While avoiding generating dust, sweep up or gather material and place in appropriate container for disposal. Spill area should then be washed thoroughly.

SECTION 7 – HANDLING AND STORAGE:

HANDLING PROCEDURES

No special procedures are required for this material. Care should be taken to minimize the generation of dusts and avoid breathing dusts if they are produced. Contact with eyes and skin should be avoided. Handle with adequate ventilation for nuisance dust. See OSHA 29CFR1910.94 (Ventilation) & 29CFR1910.1000 (Air Contaminants)

STORAGE PROCEDURES

No special procedures are required for this material.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE GUIDELINES - GENERAL PRODUCT INFORMATION

Follow all applicable ACGIH and OSHA exposure limits if dusts are generated.

EYE PROTECTION

Safety glasses with side shields (ANSI Z 87.1)

SKIN PROTECTION

Leather or other appropriate work gloves, if necessary for type of operation

VENTILATION

General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits

RESPIRATORY PROTECTION

A properly fitted NIOSH approved dust respirator or equivalent should be used in any dust environment and/or when mechanically altering product (sawing, cutting, drilling or other similar dust generating process). Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

ADDITIONAL PROTECTIVE MEASURES

Avoid creating and breathing dust.

Section 9 – Physical AND Chemical Properties:

<u>APPEARANCE:</u>	Cured concrete product of various shapes, sized, and colors.
<u>PHYSICAL STATE:</u>	Solid
<u>ODOR:</u>	Not Applicable
<u>pH:</u>	11.0 – 12.0 s.u.
<u>BOILING POINT:</u>	Not Applicable
<u>MELTING POINT:</u>	Not Applicable
<u>FREEZING POINT:</u>	Not Applicable
<u>VISCOSITY:</u>	Not Applicable
<u>SOLUBILITY (H₂O):</u>	Negligible
<u>SPECIFIC GRAVITY:</u>	2.2- 3.3 g/cc
<u>VAPOR PRESSURE:</u>	Not Applicable (mm HG @ 20C)
<u>VAPOR DENSITY:</u>	Not Applicable (Air = 1)

Section 10 –Stability AND Reactivity:

<u>STABILITY:</u>	This is a stable product. No unstable conditions have been determined.
<u>HAZARDOUS POLYMERIZATION:</u>	Polymerization will not occur.
<u>INCOMPATIBILITIES:</u>	Strong bases, Strong Acids, Hydrofluoric Acid.
<u>HAZARDOUS DECOMPOSITION / PRODUCTS:</u>	None Identified
<u>CONDITIONS TO BE AVOIDED:</u>	Dispersion of dust in air.

SECTION 11 – TOXICOLOGICAL INFORMATION:

ACUTE AND CHRONIC TOXICITY

ORAL LD50: Not Available

DERMAL LD50: Not Available

INHALATION LC50: Not Available

OTHER EFFECTS: Dusts from cutting and drilling may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness.

OTHER TOXICITY DATA

CARCINOGENICITY: CRYSTALLINE SILICA. The International Agency for Research on Cancer (IARC) recently reviewed existing epidemiological data and concluded that crystalline silica inhaled in the form of quartz from occupational sources is a known human carcinogen (Group 1). In making the assessment, the IARC noted that carcinogenicity was not detected in all industrial circumstances studied. However, IARC reported that a majority of studies indicated an elevated mortality for lung cancer among silica-exposed workers. IARC noted that increased rates of lung cancer were reported among some workers in ore-mines, quarries, foundries, ceramics, granite and stone cutting industries. The workers in some of these occupational studies were exposed to other potential respiratory carcinogens such as arsenic, radon, diesel

exhaust, polycyclic aromatic hydrocarbons or cadmium. The IARC reviewed animal studies and concluded that there is sufficient evidence in experimental animals for the carcinogenicity of quartz. Silica-crystalline quartz has resulted in liver, blood, and lung tumors in rats by inhalation, intraperitoneal and intravenous injection, intratracheal and intrapleural administration.

SECTION 12 – ECOLOGICAL INFORMATION:

ECO-TOXICITY

No data available

ENVIRONMENTAL FATE

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD

No components are classified as hazardous waste and do not meet any of the RCRA characteristics of hazardous waste. No EPA waste numbers are applicable. Waste must be disposed of in accordance with existing federal, state and local environmental control regulations.

SECTION 14 – TRANSPORTATION INFORMATION:

USDOT (DOMESTIC SURFACE)

PROPER SHIPPING NAME:	Not regulated for transport
HAZARD CLASS OR DIVISION:	Not Required
UN/NA NUMBER:	Not Required
PACKING GROUP:	Not Required
DOT PRODUCT RQ IBS (KGS):	Not Established
HAZARD LABEL(S):	Not Required
HAZARD PLACARD(S):	Not Required
FREIGHT CLASS BULK:	Not Required
FREIGHT CLASS PACKAGE:	Not Required
PRODUCT LABEL:	Not Required

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER:	Not Regulated
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ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER:	Not Regulated
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SECTION 15 – REGULATORY INFORMATION:

US FEDERAL REGULATIONS

No information is available for this product.

TSCA STATUS

Crystalline Silica in Pre-cast Concrete is on the TSCA inventory list.

OSHA STATUS

Crystalline Silica is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.

CERCLA REPORTABLE QUANTITY

Not listed.

SARA SECTION 302/313:

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A) or SARA Section 313 (40 CFR 372.65).

SARA SECTION 311/312 HAZARD CATEGORIES

Crystalline Silica qualifies as a hazardous substance with delayed health effects.

SARA SECTION 313 TOXIC CHEMICALS

Not subject to reporting requirements under Section 313.

RCRA STATUS

Not Regulated

CLEAN AIR ACT

None of this product's components are listed on the Clean Air Act-1990 Hazardous Air Pollutants List.

STATE REGULATIONS

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME & CAS NUMBER	CONCENTRATION	STATE CODE
Silica Crystalline (Silicon Dioxide) [7631-86-9]	<5.0%	CA, MA

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986)

This product contains a substance known to the State of California to cause cancer.

SECTION 16 – OTHER INFORMATION:

HMIS AND NFPA HAZARD RATINGS

HEALTH	FLAMMABILITY	REACTIVITY
1*	0	0
1	0	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

*=Chronic Health Hazard

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