



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Precast Stone Veneer

StoneCraft Industries
8300 Country Road 189
Holmesville, Ohio 44633

Emergency Contacts:

StoneCraft Industries, LLC
Phone 888.37.CRAFT

Prepared by: StoneCraft Industries

Health and Technical Contacts:

Health Issues & Technical Information (8am – 5pm EST): 888.37.CRAFT
Product Information (8 am – 5pm EST): 888.37.CRAFT

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients*:	Total Dust	Respirable Dust
Portland Cement (CAS #65997-15-1) – approximately 30% to 40% by weight.		
ACGIH TLV	10mg/m ³ TWA	
OSHA PEL	15mg/m ³ TWA	5mg/m ³ TWA
Cal OSHA PEL	10mg/m ³ TWA	5mg/m ³ TWA
Expanded Shale (CAS #68334-37-2) – approximately 40% to 60% by weight.		
ACGIH TLV		0.05 mg/m ³
OSHA PEL	30 mg/m ³ +(%SiO ₂ +2)	10 mg/m ³ +(%SiO ₂ +2)
Cal OSHA PEL	0.3 mg/m ³	0.1 mg/m ³
Sodium Hydroxide (CAS #1310-73-2) – approximately 0% to 10% by weight		
ACGIH TLV	2 mg/m ³	
OSHA PEL	2 mg/m ³ +(%SiO ₂ +2)	
Iron Oxide Pigments (CAS #1309-37-1) – approximately 0% to 3% by weight		
ACGIH TLV	5 mg/m ³ (dust and fume)	
OSHA PEL	10 mg/m ³ (dust)	
Chromium Oxide Pigments (CAS #1308-38-9) – approximately 0% to 3% by weight		
ACGIH TLV	0.5 mg/m ³	
OSHA PEL	1 mg/m ³	
Crystalline Silica (Quartz) (CAS #14808-60-7.		
ACGIH	0.025 mg/m ³ TWA (respirable fraction)	
OSHA	0.1 mg/m ³ TWA (respirable dust)	
NIOSH	0.05 mg/m ³ TWA (respirable dust)	
Pozzolan Grade Coal Fly Ash (71243-67-9)**		
ACGIH	Not Listed	
OSHA	Not Listed	
NIOSH	Not Listed	

Note: OSHA PELs for total dust and respirable dust are averaged over an 8-hour work shift.



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

* The ingredients listed above are combined with water to produce a concrete mix that cures and hardens into a precast concrete veneer product. Various reactions occur during the mixing and curing process. Sodium hydroxide may exist only as a transient reactant.

** Not listed specifically by substance name. Exposure to fly ash aluminosilicate glass dust may be covered by inert or nuisance dust limits of 15 mg/m³ for total dust and 5 mg/m³ for respirable portion.

Component-Related Regulatory Information:

This product contains crystalline silica and various iron oxides.

Component Information / Information on Non-Hazardous Components:

As provided, this product is expected to produce minimal if any hazards. However, if dusts are generated, these components may be present; this product would be considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

SECTION 3 – HAZARDS IDENTIFICATION

Appearance and Odor: Cured concrete product of various shapes, sizes and colors, which resembles natural stone.

Emergency Overview

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

Potential Health Effects

Inhalation:

Exposure to dust generated from Precast Stone Veneer in excess of the applicable TLV or PELs (see Section 2) may cause or aggravate other lung conditions. Concrete Precast Stone Veneer contains mineral dust and crystalline silica which may be released as dust when dry cutting, sawing, grinding, sanding, breaking or drilling. Dusts of this product may cause irritation of the nose, throat, and respiratory tract by mechanical abrasion. Prolonged and repeated inhalation of respirable crystalline silica can cause silicosis, a chronic lung disease characterized by fibrosis and scarring of the lung tissue, resulting in a decrease in lung function, breathlessness, wheezing, coughing and sputum production.

Short-term overexposures to extremely high concentrations of respirable crystalline silica can produce acute silicosis. Acute silicosis is a rapidly progressive, incurable lung disease that can be fatal; overexposure has reportedly caused death within 1 to 2 years. Symptoms include (but are not limited to) shortness of breath, cough, fever, weight loss, and chest pain.

Skin Contact:

Dust from this product may cause itching and short-term irritation.

Eye Contact:

Dust from this product may cause slight irritation to the eyes, including redness, tearing, and blurred vision. Such exposures require immediate first aid (see Section 4) and may require medical attention to prevent damage to the eye.

Ingestion:

Ingestion of this product is unlikely under normal use. However, ingestion of product may produce gastrointestinal irritation and disturbances.



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

Medical Conditions Aggravated by Exposure:

Chronic respiratory or skin conditions may temporarily worsen from exposure to dust from this product.

Medical Conditions Aggravated by Exposure:

Precast stone veneer is not listed as a carcinogen by NTP, OSHA, or IRAC. It contains crystalline silica, and may contain trace amounts of substances listed as carcinogenic by these organizations: hexavalent chromium, lead compounds, mercury compounds, nickel compounds, arsenic, cadmium and cadmium compounds, cobalt II oxide, aniline, and possibly other chemicals, which may result in exposures which require the following warning pursuant to California Proposition 65:

Warning: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 4 – FIRST AID MEASURES

Inhalation:

Do not induce vomiting. If inhaled, immediately remove the affected person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.

Skin Contact:

For skin contact, wash with soap and water. Contact a physician if irritation persists or later develops.

Eye Contact:

Immediately flush eye(s) with plenty of clean water for at least 15 minutes while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing to remove all particles. Beyond flushing, do not attempt to remove material from the eye(s). Contact a physician if irritation persists or later develops.

Ingestion:

Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur. Do not induce vomiting unless directed to do so by medical personnel.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: None
Upper Flammability Limit:..... Not Applicable
Flammability Classification: Non-Flammable

Flash Point Method:.....Not Applicable
Lower Flammability Limit:Not Applicable
Auto Ignition Temperature:Not Applicable

Extinguishing Media:

This product is non-combustible. Use any extinguishing media appropriate for the surrounding fires.

Unusual Fire & Explosive Hazards:

None.

Hazardous Combustion Products:

None.



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures:

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

Clean-Up Procedures:

Sweep up or gather material and place in appropriate container for disposal. Wash spill area thoroughly. Do not wash into storm drains or waterway. Wear appropriate protective equipment during clean-up. Avoid the generation of dusts during clean-up.

Response Procedures:

Isolate area. Keep unnecessary personnel away.

Special Procedures:

None.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures:

No special procedures are required for this material. Avoid breathing dusts from this material. Avoid dust contact with eyes and skin. Minimize generation of dusts. Promptly remove dusty clothing and launder before use.

Storage Procedures:

No special procedures are required for this material.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Permissible exposure limits for this product must be defined in the workplace due to the combination of silica and other constituents and conditions of use. Unless specified otherwise, limits are expressed as eight-hour time-weighted averages (TWA).

A: General Product Information

Concrete stone veneer contains mineral dust and crystalline silica, which may be released as dust when dry cutting, sawing, grinding, sanding, or drilling. Follow all applicable exposure limits if dusts are generated.

B: Component Exposure Limits

See Section 2 for composition/component listing and exposure listing.

ACGIH and OSHA have determined that adverse effects are not likely to occur in the workplace, provided exposure levels do not exceed the appropriate TLV/PEL. However, because of the wide variation in individual susceptibility, lower exposure limits may be appropriate for some individuals, including persons with pre-existing medical conditions such as those described below.

Ventilation:

General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits. Dust collection systems may be necessary in some operations.



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

Local Exhaust Ventilation:

When dry cutting, sawing, grinding, breaking, or drilling precast stone veneer, use sufficient local exhaust to reduce the level of respirable dust to the applicable standards set forth in Section 2. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice" (latest edition).

Work/Hygienic Practices:

Avoid creating and breathing dust. Do not eat, drink, or smoke in the work area.

Other Control Measures:

Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet sanding, wet suppression, ventilation, and process enclosures. Respirators must be worn when such controls are not feasible or do not completely control dust generation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

A properly-fitted NIOSH- or MSHA-approved particulate filter respirator should be used in the in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard 29 CFR 1910.134) to control exposures when ventilation or other controls (engineering or administrative) are inadequate, or discomfort or irritation is experienced. Respirator and/or filter selection should be based on American National Standards Institute (ANSI) Standard Z88.2 "Practices for Respiratory Protection."

Use respiratory protection in accordance with your company's respiratory protection program, local and OSHA regulations.

Eyes/Face Protective Equipment:

When engaged in activities where particulate matter (dust) could contact the eye, wear safety glasses with side shields. Face shields should also be used when dry sawing precast stone veneer. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated (see ANZI Z87.1). Contact lenses should not be worn when dry cutting, sawing, grinding, sanding, breaking, or drilling precast stone veneer.

Head Protection:

When working in areas where there is potential for injury to the head from falling objects, wear protective helmets that comply with ANSI Z89.1 (latest edition).

Foot Protection:

Wear appropriate foot protection that complies with ANSI Z41 (latest edition).

Skin Protection:

Wear leather/PVC or other appropriate work gloves for type of operation.



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cured concrete product of various shapes, sizes, and colors.

- Odor:**..... Not Applicable
- Physical State:**..... Solid
- pH:**..... Not Applicable
- Vapor Pressure (mm Hg @ 20°C):** Not Applicable
- Vapor Density (Air = 1):** Not Applicable
- Boiling Point:** Not Applicable
- Solubility (H₂O):** Not Applicable
- Specific Gravity (Water = 1):** Not Applicable
- Freezing Point:** Not Applicable
- Evaporation Rate (n-Butyl Acetate = 1):**..... Not Applicable
- Viscosity:**..... Not Applicable

Physical Properties: Additional Information

No additional information available.

SECTION 10 – STABILITY AND REACTIVITY

- Stability:** This is a stable material.
- Conditions to Avoid:** Avoid dispersion of dust in air.
- Incompatible Materials:** Non expected.
- Hazardous Decomposition Products:** None identified.
- Hazardous Polymerization:** Will not occur.

SECTION 11 – TOXOLOGICAL INFORMATION

Acute and Chronic Toxicity:

A: General Product Information

Dusts from dry cutting, sawing, grinding, sanding, breaking, or drilling of this product 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.

B: Compound Analysis – LD₅₀/LC₅₀

No LD₅₀/LC₅₀s are available for this product's components.

Carcinogenicity:

A: General Product Information

CRYSTALLINE SILICA: The International Agency for Research on Cancer (IARC) concluded that there was “*sufficient evidence* in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources,” and that there is “*sufficient evidence* in experimental animals for the carcinogenicity of quartz and cristobalite.” The overall IARC evaluation was that “crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is *carcinogenic to humans* (Group 1).” The IARC evaluation noted that all “carcinogenicity was not detected in all industrial circumstances studies. Carcinogenicity may be dependent on



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.”

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.

For further information on the IARC evaluation, see IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 68, “Silica, Some Silicates...”(1997). (Emphasis added.)

B: Component Carcinogenicity

ACGIH, IARC, OSHA, and NTP Carcinogen lists have been checked for those components with CAS registry numbers.

Crystalline Silica (Quartz) (14808-60-7)

ACGIH: A2 – Suspected Human Carcinogen
NTP: Known Carcinogen (Select Carcinogen)
IARC: Monograph 68, 1997 (inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 [carcinogenic to humans])

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: No data available for this product.

Environmental Fate: No data available for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Precast Stone Veneer scrap is classified as a non-hazardous solid waste for disposal. Dispose of in accordance with existing federal, state, and local environmental regulations

Scrap Precast Stone Veneer as supplied does not meet any of the RCRA characteristics of hazardous waste (Ignitable, Corrosive, Reactive, or Toxic), nor is it listed Hazardous Waste [40 CFR § 261].

Dispose of packaging material by either recycling or at an appropriate landfill.



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

SECTION 14 – TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Not regulated for transport.
 Hazard Class: None
 UN/NA #: None
 Packaging Group: None
 Required Label(s): None
 Additional Information: None

TDG Information:

Shipping Name: Not regulated for transport.
 Hazard Class: None
 UN/NA #: None
 Packaging Group: None
 Required Label(s): None
 Additional Information: None

Additional Transportation Regulations:

No additional information available.

SECTION 15 – REGULATORY INFORMATION

US Federal Regulations:

A: General Product Information

No information available for the product.

B: Component Analysis

None of the components used in the products are listed under SARA Section 302 (40 CFR 355 Appendix A) or CERCLA (40 CFR 302.4).

SARA 311 / 312

Acute Health Hazard: Yes (if dusts are generated)
 Chronic Health Hazard: Yes (if dusts are generated)
 Fire Hazard: No
 Sudden Release of Pressure Hazard: No
 Reactive Hazard: No

This product may contain the following EPCRA Section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372).

<u>CAS Registry Number</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>
1308-38-9	Chromium	0 – 3%

C: Clean Air Act

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



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

State Regulations:

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Iron Oxide	1309-37-1	Yes	Yes	Yes	Yes	Yes	Yes
Crystalline Silica (Quartz)	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations – California:

The following statement(s) is (are) provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Warning: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

General Product Information: No additional information available.

SECTION 16 – OTHER INFORMATION

HMIS and NFPA Hazard Ratings:	Category	HMIS*	NFPA
	Health	1*	1
	Flammability	0	0
	Reactivity	0	0

NFPA Unusual Hazards: None

***HMIS Personal Protection:** To be supplied by user depending upon use.

Key/Legend

- ACGIH = American Conference of Governmental Industrial Hygienists
- CAS # = Chemical Abstracts Service Registry Number
- CERCLA = Comprehensive Environmental Response, Compensation and Liability Act
- CFR = Code of Federal Regulations
- DSL = Canadian Domestic Substance List
- EPA = Environmental Protection Agency
- HMIS = Hazardous Material Identification System
- IARC = International Agency for Research on Cancer
- LC₅₀ = The concentration of material in air expected to kill 50% of a group of test animals
- LD₅₀ = The lethal dose expected to kill 50% of a group of test animals
- mg/m³ = milligrams of substance per cubic meter
- NFPA = National Fire Protection Association
- NIOSH = National Institute for Occupational Safety and Health
- NTP = National Toxicology Program
- OSHA = Occupational Safety and Health Administration
- PEL = Permissible Exposure Limit
- SARA = Superfund Amendments and Reauthorization Act
- TLV = Threshold Limit Value
- TSCA = Toxic Substance Control Act



Material Safety Data Sheet

Material Name: StoneCraft Industries Veneer

MSDS No: 003

TWA = Time Weighted Average
WHMIS = Workplace Hazardous Materials Information System

Revision Summary:

This is a revised MSDS which replaces all previous Material Safety Data Sheets for this product.

Get StoneCraft MSDS electronically via the internet: www.stonecraft.com
or by calling Toll Free: 888.37.CRAFT

This MSDS provides information on various types of StoneCraft precast stone veneer products. THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON THE DATA REASONABLY BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN. THE PREPARER ACCEPTS NO RESPONSIBILITY AND DISCLAIMS ALL LIABILITY FOR ANY HARMFUL HEALTH EFFECTS WHICH MAY BE CAUSED BY EXPOSURE TO AIRBORNE DUST PARTICLES CREATED BY DRY CUTTING, SAWING, GRINDING, SANDING, BREAKING, OR DRILLING OF PRECAST STONE VENEER, NOR ANY OTHER INJURY RESULTING FROM THEIR USE. CUSTOMERS / USERS OF PRECAST STONE VENEER MUST COMPLY WITH ALL APPLICABLE HEALTH, SAFETY AND ENVIRONMENTAL LAWS, REGULATIONS, AND ORDERS APPLICABLE TO THE SAFE HANDLING AND USE OF THE PRODUCT, TO DETERMINE.

This is the end of MSDS #002