



# The Preferred Name In Stone™

## Technical Data Sheet

The Cultured Stone® collection of manufactured stone veneers is engineered to meet or exceed specifications for all major code approvals. Manufacturers who offer “just like” or a so-called “equivalent” to Cultured Stone® manufactured stone veneer products should be asked to document claims of test results and research reports.

Complete copies of these Cultured Stone® manufactured stone veneer building code evaluation reports, research reports, approvals and listings are available upon request:

- ICC-ES ESR-1364
- Florida Product Approval FL4842
- Tested and listed by Underwriters Laboratories, Inc.
- City of Los Angeles Research Report RR23744
- HUD Materials Release No. 1316
- Texas Department of Insurance—Product Evaluation Report, EC-21
- BMEC Authorization

**Note:** Local building codes may vary; always check with your local building code authority prior to installation.

Results of tests conducted by an independent testing agency confirm that the Cultured Stone® collection of manufactured stone veneers conforms to or exceeds the following test requirements as specified in ICC Evaluation Service Acceptance Criteria 51 for Precast Stone Veneer:

### Materials

Cement	ASTM C 150
Sand	ASTM C 144 or C 33
Aggregate	ASTM C 33 or C 330 (except gradation)

### Testing

Shear Bond Test (adhesion)	Tested in accordance with ASTM C 482	>50 psi
Water Absorption	Tested in accordance with ASTM C 373	9%–22% depending on texture
Freeze/Thaw Characteristics	Testing procedures follow those outlined in ASTM C 67	<3% mass loss
Compressive Strength	Tested in accordance with ASTM C 39	>1800 psi @ 28 days
Unit Weight	Density is determined in accordance with ASTM C 567	<15 lbs. per square foot
Tensile Strength	Tested in accordance with ASTM C 190	Reported
Flexural Strength	Tested in accordance with ASTM C 348	Reported
Thermal Properties	Tested in accordance with ASTM C 177-71	R-value is .620 based on a 1.75" thick sample. Average thickness may vary on different Cultured Stone® veneer products, and the R-value will vary accordingly.
Noncombustible	Tested and listed by Underwriters Laboratories, Inc.	Cultured Stone® brand products showed zero flame spread and zero smoke development.





INNOVATIONS FOR LIVING.™

# Material Safety Data Sheet

Material Name: Cultured Stone®; Terra Craft®

MSDS No.: 15-MSD- 24897-01-C

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Product Name(s):** Cultured Stone®; Terra Craft®

Owens Corning  
One Owens Corning Parkway, World Headquarters  
Toledo, OH 43659, USA

### Emergency Contacts:

- Emergencies ONLY (after 5pm ET and weekends): 1-419-248-5330,
- CHEMTREC (24 hours everyday): 1-800-424-9300,
- CANUTEC (Canada - 24 hours everyday): 1-613-996-6666.

### Health and Technical Contacts:

- Health Issues Information (8am-5pm ET): 1-419-248-8234,
- Technical Product Information (8am-5pm ET): 1-800-GET-PINK.

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent by Wt.
1332-09-8	Pumice	60-61
Not Available	Non-hazardous ingredients	30-40
65997-17-3	Glass, oxide	3-4*
1309-37-1	Iron oxide	1-5
14808-60-7	Quartz	0.1-1

### Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Silica, crystalline (general form).

### 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).

\* Amorphous oxides of aluminum, calcium, iron, magnesium, silicon, and titanium

As provided, this material is in a cured form and the above listed components are not readily available, however if dusts are generated, these components may be present.



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## \*\*\* Section 3 - Hazards Identification \*\*\*

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

**Emergency Overview:**

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

**Potential Health Effects**

**Inhalation:**

Dusts of this product may cause irritation of the nose, throat, and respiratory tract. This product contains crystalline silica as a contaminant. 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 disease that can rapidly progress within months of initial overexposure and reportedly has caused death within 1 to 2 years.

**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.

**Ingestion:**

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

**Medical Conditions Aggravated by Exposure:**

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

## \*\*\* Section 4 - First Aid Measures \*\*\*

**Inhalation:**

- If inhaled, immediately remove the affected person to fresh air.
- If irritation persists get medical attention.

**Skin Contact:**

- For skin contact, flush with large amounts of water.
- If irritation persists, get medical attention.

**Eye Contact:**

- Immediately flush eyes with plenty of water for at least 15 minutes.
- If irritation persists get medical attention.



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## 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.

<b>*** Section 5 - Fire Fighting Measures ***</b>
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**Flash Point:** None  
**Upper Flammability Limit:** Not applicable  
**Flammability Classification:** Non-flammable

**Flash Point Method:** Not applicable  
**Lower Flammability Limit:** Not applicable  
**Auto Ignition Temp.:** Not applicable

## Extinguishing Media:

Use any extinguishing media appropriate for the surrounding fires.

## Unusual Fire & Explosion Hazards:

None identified.

## Fire-Fighting Instructions:

Use self-contained breathing apparatus (SCBA) and protective clothing ensemble as defined in NFPA 1500 .

## Hazardous Combustion Products:

None.

<b>*** Section 6 - Accidental Release Measures ***</b>
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## Containment Procedures:

- Scoop up material and put into a suitable container for disposal as a non-hazardous waste.
- Dust from cutting or drilling 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.
- Wear appropriate protective equipment during cleanup.
- Avoid the generation of dusts during clean-up.

## Response Procedures:

- Isolate area.
- Keep unnecessary personnel away.

## Special Procedures:

None.



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## \*\*\* 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.

### Storage Procedures:

No special procedures are required for this material.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Exposure Guidelines:

#### General Product Information

Follow all applicable exposure limits if dusts are generated.

#### Component Exposure Limits

ACGIH and OSHA exposure limit lists have been checked for those components with CAS registry numbers.

#### Iron oxide (1309-37-1)

ACGIH: 5 mg/m<sup>3</sup> TWA (welding fumes, dust, total particulate as Fe)

OSHA: fume: 10 mg/m<sup>3</sup> TWA

#### Quartz (14808-60-7)

ACGIH: 0.05 mg/m<sup>3</sup> TWA (this TLV is for the respirable fraction of dust)

OSHA: respirable dust: 0.1 mg/m<sup>3</sup> TWA

### 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.

### PERSONAL PROTECTIVE EQUIPMENT

#### Respiratory Protection:

- A properly fitted NIOSH approved dust respirator or equivalent should be used under the following conditions:
  - 1) any dust environment;
  - 2) 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.

#### Skin Protection:

Wear leather or other appropriate work gloves, if necessary for type of operation.

#### Eyes/Face Protective Equipment:

Wear safety glasses with side shields.



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## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b> Cured concrete product of various shapes, sizes and colors	<b>Odor:</b> Not applicable
<b>Physical State:</b> Solid	<b>pH:</b> Not applicable
<b>Vapor Pressure (mm Hg @ 20 C):</b> Not applicable	<b>Vapor Density (Air=1):</b> Not applicable
<b>Boiling Point:</b> Not applicable	<b>Solubility (H2O):</b> Not applicable
<b>Specific Gravity (Water=1):</b> Not applicable	<b>Freezing Point:</b> Not applicable
<b>Evaporation Rate (n-Butyl Acetate=1):</b> Not applicable	<b>Viscosity:</b> Not applicable

**Physical Properties: Additional Information**  
No additional information available.

## \*\*\* Section 10 – Chemical Stability & Reactivity Information \*\*\*

**Stability:**  
This is a stable material.

**Conditions to Avoid:**  
Avoid dispersion of dust in air.

**Incompatible Materials:**  
None expected.

**Hazardous Decomposition Products:**  
None identified.

**Hazardous Polymerization:**  
Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

**Acute and Chronic Toxicity:**  
**General Product Information**

- 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.

**Component Analysis - LD50/LC50**  
No LD50/LC50's are available for this product's components.



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## Carcinogenicity:

### General Product Information

**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 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.

### Component Carcinogenicity

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

#### Iron oxide (1309-37-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (dust and fume, as Fe)  
IARC: Supplement 7, 1987; Monograph 1, 1972 (Group 3 (not classifiable))

#### 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 \*\*\*

### US EPA Waste Number & Descriptions:

#### General Product Information

No components are identified as hazardous wastes.

#### Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.



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## Disposal Instructions:

Consult appropriate authorities before disposing of this material.

### \*\*\* Section 14 - Transportation Information \*\*\*

#### US DOT Information

**Shipping Name:** Not regulated for transport.

**Hazard Class:** None

**UN/NA #:** None

**Packing Group:** None

**Required Label(s):** None

**Additional Info.:** None

#### TDG Information

**Shipping Name:** Not regulated for transport.

**Hazard Class:** None

**UN/NA #:** None

**Packing Group:** None

**Required Label(s):** None

**Additional Info.:** None

#### Additional Transportation Regulations:

No additional information available.

### \*\*\* Section 15 - Regulatory Information \*\*\*

#### US Federal Regulations:

##### General Product Information

No information available for the product.

##### Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), 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

#### Clean Air Act

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

#### State Regulations:

##### General Product Information

No additional information available.



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## Component Analysis - State

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

Component	CAS #	CA	MA	MN	NJ	PA
Glass, oxide	65997-17-3	No	No	Yes	No	No
Iron oxide	1309-37-1	Yes	Yes	Yes	Yes	Yes
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes

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

**WARNING!** This product contains a chemical known to the state of California to cause cancer.

## Other Regulations:

### General Product Information

No additional information available.

## Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Pumice	1332-09-8	Yes	Yes	No
Glass, oxide	65997-17-3	Yes	Yes	Yes
Iron oxide	1309-37-1	Yes	Yes	Yes
Quartz	14808-60-7	Yes	Yes	Yes

## Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	
Iron oxide	1309-37-1	1% item 762 (1327)

**WHMIS Status:** Controlled

**WHMIS Classification:** D2A- Carcinogenicity (If dusts are generated)

## \*\*\* 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.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



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### Key/Legend:

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; 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, NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act

### Revision Summary:

This is a revised MSDS which replaces 15-MSD-24897-01-B with updated component quantities. Read this information carefully.

Get OC MSDS electronically via Internet: <http://www.owenscorning.com> or by calling 1-419-248-8234.

This is the end of MSDS # 15-MSD-24897-01-C