

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Article  
 Product name : Qora Cladding  
 Product code : n/a  
 Synonyms : Qora Cladding painted, Qora Cladding unpainted,

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Construction material, Wall cladding  
 Use advised against : None known

#### 1.3. Details of the supplier of the safety data sheet

Arcitell, LLC  
 750 Edelweiss Dr. NE  
 Sugarcreek, OH 44681

Tel: 301-223-2266

#### 1.4. Emergency telephone number

Emergency number : Tel: 301-223-2266 (24 HOURS)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification<sup>†</sup>

Skin corrosion/irritation, Category 2  
 Skin sensitization, Category 1  
 Serious eye damage/irritation, Category 1  
 Carcinogenicity, Category 1A  
 Combustible Dust

#### 2.2. Label elements<sup>§</sup>

##### Labelling

Hazard pictograms



Signal word

: Danger

Hazard statements

: Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 May cause cancer by inhalation.  
 May form combustible dust concentration in air

Precautionary statements

: Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Avoid breathing dust.  
 Wash thoroughly after handling.  
 Wear protective gloves/eye protection/face protection.  
 IF ON SKIN: Wash with plenty of water.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

<sup>†</sup> This product is an article and according to criteria of OSHA's Hazard Communication Standard (HazCom 2012), this product is not classified as hazardous as supplied. However, dust or fumes from processing of this product are classified hazardous as listed above.

<sup>§</sup> Scope and application of OSHA's Hazard Communication Standard (HazCom 2010), including a requirement of SDS and labeling, does not apply to Article.

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IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

Other hazards which do not result in : None known.

### 2.4. Unknown acute toxicity

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

This product is an article with following composition and does not meet criteria of mixture.

Name	Product identifier (CAS No.)	% w/w
Phenol, polymer with formaldehyde	9003-35-4	13 - 21
Phenol	108-95-2	< 0.9
Quartz (SiO <sub>2</sub> )	14808-60-7	0.5 – 0.8
titanium dioxide	13463-67-7	0.2 – 0.5
Proprietary organo-inorganic compound	Trade secrets	< 2

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1).

All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : No exposure by inhalation is expected. IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

First-aid measures after skin contact : Rinse skin with water. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

First-aid measures after eye contact : No exposure through eyes is expected. Rinse cautiously with water for several minutes. IF exposed or concerned: Get medical advice/attention.

First-aid measures after ingestion : No exposure by ingestion is expected Rinse mouth. IF exposed or concerned: Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Any dust created as a result of cutting or other manipulation may cause irritation to skin, serious damage to eyes. Treat symptomatically.

### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : As appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : None.

### 5.2. Special hazards arising from the substance or mixture

The product is not flammable. Avoid generation of dust; fine dust dispersed in air in sufficient concentration, and in the presence of an ignition source is a potential dust explosion hazard.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Pick up large pieces and sweep/vacuum. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. In case of generation of dust during processing: use appropriate personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust.

#### 6.2. Environmental precautions

No specific precaution is required.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Recover or recycle if possible. Wet clean or vacuum up solids. Sweep or shovel fine turning into appropriate container for disposal. Avoid raising powdered materials into airborne dust. Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air). Non-sparking tools should be used.

#### 6.4. Reference to other sections

See also section 8, 13 for personal protective equipment and waste disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station when processing. Wear personal protective equipment. Avoid raising powdered materials into airborne dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixture operations.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store locked up.

Storage temperature : Ambient  
Storage life : Stable under normal conditions.  
Incompatible materials : None known

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTCL (8 hr TWA ppm)	LTCL (8 hr TWA mg/m <sup>3</sup> )	STCL (ppm)	STCL (mg/m <sup>3</sup> )	Note:
Silica: CrystallineQuartz (Respirable)	14808-60-7	250	10			OSHA PEL_Table Z-3, mppcf, (h), (k), mppcf divided by (%SiO <sub>2</sub> +5), mg/m3 value divided by (% SiO <sub>2</sub> + 2)
Silica: CrystallineQuartz (Total Dust)	14808-60-7		30			OSHA PEL_Table Z-3, mg/m3 value divided by (% SiO <sub>2</sub> + 2)
Silica: Crystalline, Quartz (Respirable)	14808-60-7		0.05			CAL-OSHA PEL_Table Z-3, Ca
Silica: CrystallineQuartz (Respirable)	14808-60-7	250	10			OSHA PEL_Table Z-3, mppcf, (h), (k)
Silica: CrystallineQuartz (Total Dust)	14808-60-7		30			OSHA PEL_Table Z-3, (% SiO <sub>2</sub> + 2)
Silica: Crystalline, Quartz (Respirable)	14808-60-7		0.05			NIOSH REL Z-3, Ca
Silica, crystalline (Quartz, respirable dust)	14808-60-7		0.1			OSHA PEL
Silica, crystalline (Quartz,	14808-60-7		0.3			OSHA PEL

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total dust)						
Silica, crystalline, α-quartz	14808-60-7		0.025			ACGIH TLV, R
Phenol	108-95-2	5	19			OSHA PEL Z-1
Phenol	108-95-2	5	19			OSHA PEL, S
Phenol	108-95-2	5				NIOSH REL Z-1, C = 15.6 ppm [15min]
Phenol	108-95-2	5	19			ACGIH TLV, Skin
Stearates (total dust)	Trade secrets		15			OSHA PEL Z-1
Stearates (Respirable fraction)	Trade secrets		5			OSHA PEL Z-1
Stearates	Trade secrets		10			OSHA PEL
Stearates (total dust)	Trade secrets		10			NIOSH REL Z-1
Stearates (Respirable fraction)	Trade secrets		5			NIOSH REL Z-1
Stearates	Trade secrets		10			ACGIH TLV, I, J
Stearates	Trade secrets		3			ACGIH TLV, R, J
Stearate	Trade secrets		10			ACGIH TLV
Aluminium, metal and insoluble compounds	21645-51-2		1			ACGIH TLV, R
Titanium dioxide (Total dust)	13463-67-7		15			OSHA PEL Z-1
Titanium dioxide (Total dust)	13463-67-7		2.4			Fine particles
Titanium dioxide (Total dust)	13463-67-7		0.3			NIOSH REL Z-1, Ca, ultrafine particles
Titanium dioxide	13463-67-7		10			ACGIH TLV
Silica, amorphous (Respirable fraction)	61790-53-2		3			OSHA PEL, (n)
Silica, amorphous (Total dust)	61790-53-2		6			OSHA PEL
Silica, amorphous (Precipitated and gel)	61790-53-2		6			OSHA PEL
Kaolin (Total dust)	1332-58-7		15			OSHA PEL Z-1
Kaolin (Respirable fraction)	1332-58-7		5			OSHA PEL Z-1
Kaolin (Total dust)	1332-58-7		10			NIOSH REL Z-1
Kaolin (Respirable fraction)	1332-58-7		5			NIOSH REL Z-1
Kaolin	1332-58-7		2			ACGIH TLV, R, E
Formaldehyde	50-00-0	0.75		2		OSHA PEL
Formaldehyde	50-00-0	0.016				NIOSH REL Z-1, Ca, C = 0.1ppm [15min]
Formaldehyde	50-00-0	0.1	0.12	0.3	0.37	ACGIH TLV, DSEN, RSEN

Remark	Notes
OSHA PEL_Table Z-3	Occupational Safety and Health (OSHA) Permissible Exposure Limits (PELs) Table Z-3 Mineral Dusts.
mppcf	Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. Conversion factors - mppcf × 35.3 = million particles per cubic meter = particles per c.c.
(h)	The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable.
(k)	Both concentration and percenta quartz for the application of this limit are to be determined from the fraction passing through a size-selector with the following characteristics: Aerodynamic diamtere unit density sphere/ percent passing selector : 2/90; 2.5/75; 3.5/50; 5/25; 10/0. the measurementsd under htis note refer to the use of an AEC (now NRC) instrument. The respireable fraction of coal dust is determined with anMRE; the figure corresponding to that on 2.4mg/m3 for coal dust is 4.5mg/m3.
mppcf divided by (%SiO2+5)	The PEL in mppcf is calculated by dividing by the percentage SiO2 +5.
mg/m3 value divided by (% SiO2 + 2)	The PEL in mg/m3 is calculated by dividing by the percentage SiO2 +2.
CAL-OSHA PEL_Table Z-3	California Division of Occupational Safety and Health (CAL-OSHA) Permissible Exposure Limits (PELs) Table Z-3 Mineral Dusts.
Ca	Potential occupational carcinogens.See NIOSH Appendix A <a href="http://www.cdc.gov/niosh/npg/nengapdx.html">http://www.cdc.gov/niosh/npg/nengapdx.html</a>
NIOSH REL Z-3	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-3: Up to 10-hour time weighted average (TWA) during a 40-hour work week
OSHA PEL	Occupational Safety and Health (OSHA) Permissible Exposure Limits (PELs).
ACGIH TLV	The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2018
R	Measured as respirable fraction of the aerosol
OSHA PEL Z-1	Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table
S	Skin Sensitization
NIOSH REL Z-1	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-

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C = 15.6 ppm [15min]	hour time weighted average (TWA) during a 40-hour work week
Skin	Ceiling limit of 15.6ppm and 15min duration
I	Danger of cutaneous absorption
J	Measured as Inhalable fraction of the aerosol
Fine particles	Does not include stearates of toxic metals
ultrafine particles	In fine particles form
(n)	In ultrafine particles form
E	The concentration and percentage of the particulate used for this limit are determined from the fraction passing a size selector with the following characteristics: (aerodynamic Diameter (µm)/% Passing Selector): 0/100; 1/97; 2/91; 3/74; 4/50; 5/30; 6/17; 7/9; 8/5; 10/1.
C = 0.1ppm [150min]	The value is for particulate matter containing no asbestos and <1% crystalline silica
DSEN	Ceiling limit of 0.1ppm and 150min duration
RSEN	May cause dermal sensitization
	May cause respiratory sensitization

BEI: Biological Exposure Indices (ACGIH)						
Substances	CAS Number	Sampling	Tissues	Control parameters	Biological monitoring guidance value	Comments
Phenol	108-95-2	End of shift	urine	Phenol	250 mg/g creatinine	*, B, Ns

Remark	Notes
*	with hydrolysis
B	Background
Ns	Nonspecific

### 8.2. Exposure controls

Appropriate engineering controls	: Not required under normal conditions and use. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.
Personal protective equipment	: Handle in accordance with good industrial hygiene and safety practices. Avoid all unnecessary exposure. For certain operations, additional Personal Protective Equipment (PPE) may be required.



Eye protection : Wear eye protection.



Skin protection : Wear protective clothing and gloves if exposure anticipated.



Respiratory protection : Normally no personal respiratory protection is necessary



Thermal hazards : None known.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: Solid
Color	: Various colors
Odor	: Odorless

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Odor threshold	: No data available
pH	: Not applicable
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Density (g/ml)	: No data available
Relative density	: No data available
Solubility(ies)	: Solubility (Water) : Not known. Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition Temperature (°C)	: No data available
Viscosity	: Not applicable
Explosive properties	: No data available
Oxidising properties	: Not applicable

### 9.2. Other information

: None  
: None

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None anticipated.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

### 10.4. Conditions to avoid

None anticipated.

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

May release minute amount of formaldehyde and phenol

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - Ingestion	: Not classified. Calculated acute toxicity estimate (ATE) Calc ATE - 5747.00000
Acute toxicity - Skin Contact	: Not classified. Calculated acute toxicity estimate (ATE) Calc ATE - 22388.00000
Acute toxicity - Inhalation	: Not classified. Calculated acute toxicity estimate (ATE) Calc ATE - 37.00000
Skin corrosion/irritation	: Calculation method : Causes skin irritation. (This product is an article)

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Serious eye damage/irritation	: Calculation method : Causes serious eye irritation. (This product is an article. Dust or fumes from the processing of this product may cause serious eye damage)
Skin sensitization	: Calculation method : May cause an allergic skin reaction. (This product is an article. Dust or fumes from the processing of this product may cause an allergic skin reaction)
Respiratory sensitization	: Not classified.
Germ cell mutagenicity	: There is no evidence of mutagenic potential.
Carcinogenicity	: Calculation method : May cause cancer by inhalation. (This product is an article. Breathing of the dust or fumes from the processing of this product may cause cancer by inhalation)
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology – Aquatic invertebrates	: Low toxicity to invertebrates.
Toxicity - Fish	: Low toxicity to fish.
Toxicity - Algae	: Low toxicity to algae.
Toxicity - Sediment Compartment	: Not classified.
Toxicity - Terrestrial Compartment	: Not classified.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of cartridge in accordance with local, state or national legislation.
Additional Information	: No special precautions are required for this product.

## SECTION 14: Transport information

Not classified as hazardous for transport.

### 14.1 UN number

Not applicable

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### 14.2 UN proper shipping name

Not applicable

### 14.3 Transport hazard class(es)

Not applicable

### 14.4 Packing group

Not applicable

### 14.5 Environmental hazards

Not classified as a Marine Pollutant.

### 14.6 Special precautions for user

Not known

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

## SECTION 15: Regulatory information

### 15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z) Listed : 14808-60-7, 108-95-2, 557-05-1, 13463-67-7, 61790-53-2, 1332-58-7, 50-00-0

National emission standards for hazardous air pollutants (40 CFR 61.01) Listed : 108-95-2

SARA Title III Section 313 Not listed

TSCA (Toxic Substance Control Act) Listed : 14808-60-7 (Active), 9003-35-4 (Active), 108-95-2 (Active), 557-05-1 (Active), 21645-51-2 (Active), 104-15-4 (Active), 13463-67-7 (Active), 61790-53-2 (Active), 1332-58-7 (Active), 50-00-0 (Active), 63231-67-4 (Active)

CAA 602 - Ozone Depleting Substances (ODS) Not listed

### 15.2 US State Regulations

State Right to Know Lists

Proposition 65 (California)

Minnesota

Listed : 13463-67-7, 50-00-0

Listed : 14808-60-7, 108-95-2, 557-05-1, 13463-67-7, 61790-53-2, 1332-58-7, 50-00-0

New Jersey

Listed : 14808-60-7, 108-95-2, 557-05-1, 91051-01-3, 104-15-4, 13463-67-7, 61790-53-2, 1332-58-7, 50-00-0

Pennsylvania

Listed : 14808-60-7, 108-95-2, 557-05-1, 91051-01-3, 104-15-4, 13463-67-7, 1332-58-7, 50-00-0

Rhode Island

Listed : 14808-60-7, 108-95-2, 557-05-1, 13463-67-7, 61790-53-2, 1332-58-7, 50-00-0

### 15.3 Other

OSPAR List of Chemicals for Priority Action Not listed

OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives) Listed : 50-00-0

NTP (National Toxicology Program ) Listed : 14808-60-7, 50-00-0

IARC (International Agency for Research on Cancer ) Listed : 14808-60-7, 108-95-2, 13463-67-7, 50-00-0

## SECTION 16: Other information

Indication of changes : Not applicable

Revision date : Not applicable

Acronyms

CAS : Chemical Abstracts Service  
LTEL : Long term exposure limit  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*