



MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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SECTION 1 – Identification of substance

Product details: Cluster of Manufactured Stone like pieces in form of Panel, Singles and Corners.

Trade name: Cluster Stone

Article Number: 00061

Application of the substance / the preparation: *Manufactured Cast Stone Panels / Pieces*

Manufacturer

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SECTION 2- 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, and 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 3 - Composition/information on ingredients

This product consists of a heterogeneous and mixture of below substances:

	Cas No:	EC No:	Pre Registraion No
Quartz	14808-60-7	238-878-4	05-2114682893-32-0000
Pumice	1332-09-8	N/A	17-2119923901-41-0000
Cement	65997-15-1	266-043-4	17-2119912983-32-0000
Iron oxide pigments	20344-49-4	243-746-4	05-2115117488-43-0000
Iron oxide pigments	1309-37-1	215-168-2	05-2115117821-55-0000
Iron oxide pigments	1317-61-9	215-277-5	05-2115118310-67-0000

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.

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.*

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

Flash Point Method: Not applicable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Flammability Classification: Non-flammable

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

SECTION 6 - Accidental release measures

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.

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/m³ TWA (welding fumes, dust, total particulate as Fe)

OSHA: fume: 10 mg/m³ TWA

Quartz (14808-60-7)

ACGIH: 0.05 mg/m³ TWA (this TLV is for the respirable fraction of dust)

OSHA: respirable dust: 0.1 mg/m³ TWA

Ventilation:

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

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.

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-ButylAcetate=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: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.

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

Eco toxicity: No data available for this product.

Environmental Fate: No data available for this product

SECTION 13 - Disposal considerations

General Product Information : No components are identified as hazardous wastes.

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

Disposal Instructions: Consult appropriate authorities before disposing of this material.

SECTION 14 – Transport Information

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

Exceptions: None

Marine pollutant: None known

Additional Transportation Regulations:

No additional information available.

SECTION 15 - Regulatory Information

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.

General Product Information

No additional information available.

SECTION 16 – Other Information

Mixture HMIS RATING

Health = 1* Fire = 0 Reactivity = 0

NFPA Unusual Hazards None

HMIS Personal Protection

To be supplied by user depending upon use.

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