

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING**Product Identifier**

Material Name: Glen-Gery Landmark Stone

Trade Name: Manufactured Stone Veneer

Chemical Family: Predominately Silica and Calcium Compounds

Formula: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Building material used for aesthetic purposes

Supplier of the Safety Data Sheet

Glen-Gery Landmark Stone
267 Safety Way Road
Cynthiana, KY 41031
Product Support/Technical Services Phone: (610) 562-3076

Emergency telephone number:
Plant Office: (859) 235-9636
Technical Services: (610) 562-3076
Contact E-Mail: GGtech@glengery.com

2. HAZARDS IDENTIFICATION

Appearance: Granular stone-shaped solid; comes in wide range of colors

Hazard Classification of the Substance or Mixture: Skin irritation 2
Eye irritation 2A
Skin sensitization 1
Carcinogenicity 1A
Specific target organ toxicity - Single exposure 3
Specific target organ toxicity - Repeated exposure 1

Signal Word: Danger

Hazard Statement: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Respirable dust may contain crystalline silica, known to cause cancer. May cause respiratory irritation. Causes damage to lungs through prolonged or repeated exposure

Pictograms:

Revision date: October 2017

2. HAZARDS IDENTIFICATION

Precautionary Statements:	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust.
Response:	If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
Storage:	Not Applicable
Disposal:	Dispose of unused or unwanted manufactured stone products in accordance with all local, regional, national and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% Weight
Expanded Clay Aggregate	68334-37-2	70
Portland Cement	65997-15-1	25
Sand (Quartz)	14808-60-7	4
Iron Oxide	1309-37-1	1

Additional Information: The above chemistries are provided for industrial hygiene purposes and are not intended to represent product specifications. This information has been compiled from information believed to be reliable. Elements such as aluminum, arsenic, boron, calcium, chromium, cobalt, copper, lead, molybdenum, nickel, tin, titanium, vanadium, and zirconium may be present in trace amounts. Manufactured Stone Veneer products as shipped do not present an exposure hazard.

Revision date: October 2017

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact:	Flush with running water. Obtain medical assistance if irritation continues.
Skin Contact:	Wash with soap and water. If an allergic reaction causes a rash that does not heal within a few days consult a physician. Treat abrasions as any other scrape or cut with disinfectants and bandages.
Ingestion:	Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.
Inhalation:	Remove from exposure to airborne particulates. Consult a physician if breathing does not return to normal.

Most Important Symptoms and Effects, Both Acute and Delayed

Eye Contact:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Skin contact:	Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.
Inhalation:	Dust may cause respiratory tract irritation.
Ingestion:	Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract

Recommendations for Immediate Medical Attention and Special Treatment Needed

Notes to Physician:	Symptoms may not appear immediately.
Specific Treatments:	In case of accident or if you feel unwell, seek medical advice immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:	Not applicable
Special Hazards Arising from the Substance or Mixture	
Hazardous Combustion Products:	No data available
Fire / Explosion Hazards:	Manufactured Stone as shipped does not pose a fire or explosion hazard.
Advice for Fire-Fighters:	None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment

Use personal protection recommended in Section 8.

Emergency Procedures

Not applicable.

Revision date: October 2017

Methods and Material for Containment and Cleaning Up**Containment Procedures:**

Pick up large pieces and place in a suitable container. Do not flush to sewer or allow entering to waterways. Use appropriate Personal Protective Equipment (PPE).

Cleanup Procedures:

Vacuum or sweep material and place in a disposal container. Use wet methods, if appropriate, to reduce the generation of dust. Provide ventilation if dust is generated.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Minimize dust generation and accumulation. Avoid breathing dust. Use wet methods, especially when cutting is involved to reduce the generation of dust.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Always stack and store manufactured stone in a stable manner to avoid falling hazards.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Expanded Clay Aggregate

OSHA PEL

5 mg/m³ (respirable)

ACGIH TLV

3 mg/m³ (respirable)**Portland Cement**

OSHA PEL

15 mg/m³ (Total Dust) / 5 mg/m³ (respirable)

ACGIH TLV

10 mg/m³ (Total Dust)**Sand (Quartz)**

OSHA PEL

10 mg/m³ / % SiO₂ + 2 mg/m³ (respirable)

ACGIH TLV

0.025 mg/m³ (respirable)**Iron Oxide**

OSHA PEL

10 mg/m³ (respirable)

ACGIH TLV

5 mg/m³ (respirable)**Exposure Controls****Engineering Controls:**

Provide adequate ventilation to maintain exposures below the OSHA PEL and ACGIH TLV for quartz and other substances.

Personal Protective Equipment:

Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

Revision date: October 2017

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Feet:	Use of steel toe shoes is recommended when handling this product.
Eyes and Face:	Safety glasses or goggles are recommended when using product.
Skin:	Use gloves and or protective clothing if abrasions or allergic reactions are experienced.
Respiratory protection:	For airborne concentration exceeding the OSHA PEL or ACGIH TLV use a NIOSH and/or MSHA approved respirator.
Other:	Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Color:	Varies
Odor:	Essentially odorless	Odor Threshold:	No data available
Molecular Formula:	Mixture	Molecular Weight:	Mixture
Solvent Solubility:	No data available		
Water Solubility:	Negligible		
pH:	No data available.		
Melting/Freezing Point (°C):	No data available		
Boiling Point (°C):	No data available		
Partition Coefficient: (Method, pH, Endpoint, Value)			
No data available			
Decomposition Temperature (°C):	No data available.		
Evaporation Rate (Gram/s):	No data available		
Vapor Pressure (kPa):	No data available		
Vapor Density (g/ml):	No data available		
Relative Density:	No data available		
Viscosity:	No data available		
Flammability:			
Autoignition Temperature (Solid) (°C):		No data available	
Flammability (Solids):		Not Flammable	
Flash Point (Liquid) (°C):		No data available	
Upper Explosive Limits (Liquid) (% by Vol.):		No data available	
Lower Explosive Limits (Liquid) (% by Vol.):		No data available	

10. STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazardous Reactions:	
Oxidizing Properties:	No data available
Incompatible Materials:	No data available
Hazardous Decomposition Products:	No data available

11. TOXICOLOGICAL INFORMATION

Effects of Short Term and Long Term Exposure:

Revision date: October 2017

11. TOXICOLOGICAL INFORMATION

Short Term

Manufactured Stone units as shipped do not present an inhalation, ingestion or contact hazard. However, operations such as sawing and grinding may result in the following effects.

Eye:	May cause irritation by abrasion with dust or chips.
Skin:	Manufactured Stone dust or chips may cause allergic reactions in hypersensitive individuals; May cause cuts and skin abrasions.
Inhalation:	Manufactured Stone dust or chips may cause congestion and irritation in nasal and respiratory passages.
Ingestion:	Not a normal route of exposure. May result in obstruction and temporary irritation of the digestive tract.

Long Term

Excessive exposures to respirable particulates (dust) over an extended period of time may result in the development of pulmonary diseases such as silicosis.

Information on Toxicological Effects

General Information:

Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of crystalline silica. Manufactured Stone dust may contain crystalline silica, a chemical that has been determined by certain agencies to cause cancer and other chemicals known to cause cancer, birth defects and other reproductive harm. Inhalation of manufactured stone dust above established or recommended exposure levels should be avoided by use of wet sawing or shaping and/or use of a NIOSH and/or MSHA approved respirator.

Carcinogen Status:

The following carcinogenicity classifications for crystalline silica have been established by the following agencies:

- OSHA:** Not regulated as a carcinogen
- IARC:** Group 1 carcinogenic in humans
- NIOSH:** Carcinogen, with no further categorization
- NTP:** Known carcinogen

12. ECOLOGICAL INFORMATION

There are no known environmental impacts. No ecological consideration when used according to directions.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. State specific and Community specific provisions must be considered. It is recommended that waste minimization be practiced.

Revision date: October 2017

14. TRANSPORT INFORMATION

This material is not regulated for transportation as a hazardous material/dangerous good.

DOT: Manufactured Stones as shipped are not hazardous materials per DOT regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

RCRA	Manufactured Stone in its solid form is typically considered a non-hazardous waste for disposal, but local regulation may vary, therefore all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations. Water containing manufactured stone solids, such as from wet sawing operations, should also be disposed of in accordance with federal, state and local environmental regulation. Stone waste should not be used as a blasting agent.
EPCRA Section 311/312:	Manufactured Stones as shipped are not a Section 311/312 reportable product.
EPCRA Section 313:	Manufactured Stones as shipped are not subject to the Section 313, Toxic Chemical Release Inventory reporting requirements.
DOT:	Manufactured Stones as shipped are not hazardous materials per DOT regulations.
California Proposition 65:	This product may contain crystalline silica, a substance known to the State of California to cause cancer. This product may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

Glen-Gery Corporation considers Landmark Manufactured Stone an "article" as defined in 30 CFR 1200(b)(g)(iv) and 40 CFR 372.38. As an article, an SDS is not required and the product is exempt from all other requirements of the hazard communication standard. OSHA requires an SDS for manufactured stone because it is occasionally dry sawed. We recommend only wet sawing of manufactured stone.

Data Sources:	The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.
Reasons for Revision:	Contact information revision
Prepared by:	The Glen-Gery Corporation

This SDS was prepared with information believed accurate at the time of preparation and was prepared and provided in good faith. However, the Glen-Gery Corporation assumes no responsibility as to the accuracy or suitability of such information and no warranty expressed or implied is made.

SAFETY DATA SHEET

Material Name: Manufactured Stone

Page 8 of 8

Revision date: October 2017

End of Safety Data Sheet
