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SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Names: Ceramic (Clay) Roof Tile

1.1 INTENDED USE OF THE PRODUCT BUILDING MATERIALS Building Material

1.2 NAME, ADDRESS AND TELEPHONE NUMBER OF THE RESPONSIBLE PARTY

WESTLAKE ROYAL ROOFING LLC

2801 Post Oak, Suite 600, Houston, Texas 77056 | Ph:1-855-769-2585

1.3 EMERGENCY TELEPHONE NUMBER: 1-800-822-7529

SECTION 2: HAZARD (S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE (GHS-US)

This product is an article as defined in the OSHA Hazard Communication Standard [29 CFR 1910.1200(c)] and, therefore, is exempt from regulatory requirements when handled as a manufactured item. This SDS contains additional health hazard information related to dust generation during construction.

2.1 HAZARD CLASSIFICATION (GHS-US)

Skin Irritation 2

Eye Irritation 2 B

STOT-SE (Single Exposure) 3 (Respiratory Irritation)

STOT-RE (Repeated Exposure) 2 (Respiratory Illness)

Carcinogen 1A

2.2 LABEL ELEMENTS (GHS-US)

Hazard Pictograms:



Signal Word:

- Danger

Hazard Statements:

- Causes skin irritation (H316)
- Causes eye irritation (H320)
- May cause respiratory irritation (H335)
- May cause cancer (H350)
- May cause damage to respiratory system through prolonged or repeated exposure (H373)

Precautionary and Response Statements:

- Do not handle until all safety precautions have been read and understood (P202)
- Avoid breathing dust; in case of inadequate ventilation, wear respiratory protection (P264) (P284)
- Cut/grind/chip product in a well-ventilated area or use a wet saw (P271)
- Wear protective gloves, protective clothing, and eye protection (P280)
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing (P304) (P340)
- IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing until pain or irritation subsides. (P305) (P351) (P338)
- If symptoms persist: Get medical advice/attention (P308) (P313)

2.3 OTHER HAZARDS

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4 CALIFORNIA PROPOSITION 65:  **WARNING:** Cancer and Reproductive Harm—www.P65Warnings.ca.gov**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 DESCRIPTION OF PRODUCT** Ceramic (clay) article**3.2 PRODUCT INGREDIENTS AND HAZARD CLASSIFICATION**

Substances and hazard classification based on dust composition.

Ingredient	Product Identifier (CAS No.)	% (w/w)	Hazard Classification (GHS-US)
Aluminum oxide silicates	12141-46-7	70 – 80	<ul style="list-style-type: none"> • Skin Irritation 2, H316 • Eye Irritation 2B, H320 • STOT 3 (Respiratory), H335
Iron oxide	1309-37-1	4 – 6	<ul style="list-style-type: none"> • Not classified
Quartz	14808-60-7	< 10	<ul style="list-style-type: none"> • Carcinogenicity 1A, H350 • STOT 2 (Respiratory), H373
Magnesium oxide	1309-48-4	2 – 3.5	<ul style="list-style-type: none"> • Not classified
Sodium monoxide	9003-07-0	2 – 3.5	<ul style="list-style-type: none"> • Not classified in this matrix product

Note: This product contains additional not classified substances at low concentrations that do not contribute to the hazards of this product.

SECTION 4: FIRST AID MEASURES**4.1 DESCRIPTION OF FIRST AID MEASURES**

General: Never give anything by mouth to an unconscious person. Any person who is experiencing symptoms of injury or illness should be moved to a comfortable area with fresh air, and the label or SDS for this product reviewed.

Inhalation: If symptoms of dust exposure (respiratory irritation) occur, move the person to fresh air. Provide drinking water, if conscious, to flush mouth and irrigate upper respiratory tract. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

Eye Contact: If injury is due to a projectile, seek immediate medical attention. If the person's symptom is eye irritation due to dust exposure, careful flushing with clean water should continue for at least 15 minutes. If contact lenses are present, they should be removed after flushing. Flushing should continue until irritation subsides. Medical attention should be obtained if irritation persists.

Skin: Injuries to skin due to abrasion, laceration, or crushing should be treated by flushing with clean water, followed by first aid (application of disinfectant and bandage). If the injury is more extensive or irritation and pain persists, medical attention should be sought.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS—BOTH ACUTE AND DELAYED

General: The most important symptoms and effects from exposure to this product's dust is respiratory irritation and respiratory system chronic illness if significant exposures occur repeatedly.

Inhalation: The immediate acute response to dust inhalation is respiratory system irritation. Upon repeated high levels of dust exposure, crystalline silica content of the dust may cause delayed or chronic respiratory illnesses, including silicosis and cancer.

Eye Contact: Exposures of the eyes to particles and dust may result in irritation, pain, redness, and blurred vision, which is usually temporary.

Skin Contact: Other than abrasion and irritation, skin contact should not cause delayed or chronic symptoms.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Anytime symptoms of eye irritation or respiratory irritation persist, medical attention should be obtained.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Finished product is not combustible.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire Hazard: Not combustible.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions are not expected to occur under normal conditions.

5.3 ADVICE FOR FIRE FIGHTERS

Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES**

General Measures: Do not breathe dust. Do not get in eyes, on skin, or on clothing.

6.1.1. FOR NON-EMERGENCY PERSONNEL

Protective Equipment: Use appropriate personal protective equipment (PPE) during clean-up.

Emergency Procedures: Not applicable.

6.1.2. FOR EMERGENCY PERSONNEL

Protective Equipment: Equip clean-up crew with proper protection.

Emergency Procedures: Ventilate area or use wet methods if dust is generated.

6.2 ENVIRONMENTAL PRECAUTIONS

Reuse product as appropriate to avoid disposal.

6.3 METHOD AND MATERIAL FOR CONTAINMENT AND CLEAN-UP

Containment: Contain and collect as any solid. Avoid actions that cause dust to become airborne. Do not breathe dust, and do not allow large quantities of dust to contact skin.

6.4 REFERENCE TO OTHER SECTIONS See Section 8.

Exposure Controls and Personal Protection. For further information, refer to Section 13.

SECTION 7: HANDLING AND STORAGE**7.1 PRECAUTIONS FOR SAFE HANDLING**

Additional Hazards when Processed: Cutting, crushing, or grinding crystalline silica-bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression and Personal Protective Equipment (PPE) described in Section 8.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking, and again when leaving work.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Not applicable.

7.3 SPECIFIC END-USE(S) No applicable limits.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

The following exposure limits are based on a time-weighted full-shift exposure, unless otherwise noted.

Ingredient	OSHA PEL ⁽¹⁾	ACGIH-TLV ⁽²⁾	Other ⁽³⁾
Aluminum oxide silicate	15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction) ⁽⁴⁾	10 mg/m ³ (total dust); 3 mg/m ³ (respirable fraction) ⁽²⁾	
Iron oxide	Fume: 10 mg/m ³ (total dust); Particulate: 15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction)	5 mg/m ³ (respirable fraction)	5 mg/m ³ (total dust)
Quartz (crystalline silica) ⁽⁴⁾	50 µg/m ³ [0.05 mg/m ³ (respirable fraction)]	0.025 mg/m ³ (respirable fraction)	0.05 mg/m ³ (respirable fraction)
Magnesium oxide	15 mg/m ³ (total dust)	10 mg/m ³ (respirable dust)	
Sodium monoxide [control limit based on hydroxide]	2 mg/m ³ (ceiling) ⁽⁵⁾	2 mg/m ³ (STEL) ⁽⁶⁾	

f_n⁽¹⁾ OSHA PEL (Permissible Exposure Levels at 29 CFR 1910.1000)

f_n⁽²⁾ ACGIH-TLV (American Conference of Governmental Industrial Hygienists-Threshold Limit Values 2018)

f_n⁽³⁾ NIOSH REL (National Institute for Occupational Safety & Health Recommended Exposure Limit)

f_n⁽⁴⁾ Amount of respirable crystalline silica not determined.

f_n⁽⁵⁾ Ceiling—Not to be exceeded

f_n⁽⁶⁾ STEL (Short-Term Exposure Limit)

8.2 EXPOSURE CONTROLS

Appropriate Engineering Controls: Power equipment should be equipped with wet dust suppression or dust collection devices if cutting/grinding/chipping product. Emergency eyewash equipment should be available in the immediate vicinity of any potential exposure. Use local exhaust or general dilution ventilation, or other suppression methods to maintain dust levels below exposure limits. Reference: OSHA Respirable Crystalline Silica Standard for Construction [29 CFR 1926.1153].

Personal Protective Equipment: Protective goggles or safety glasses, and gloves. Wear respiratory protection if dust is present when cutting/grinding/chipping product.



Hand Protection: Protective gloves as appropriate to prevent abrasion and hand injuries.

Eye and/or Face Protection: Approved safety glasses, goggles, and/or face-shield.

Skin and Body Protection: Appropriate work clothing and footwear should be worn.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH-approved respiratory protection should be worn in accordance with the OSHA Respiratory Protection Standard [29 CFR 1910.143].

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid.

Appearance: Solid. Tiles come in a wide range of colors.

Odor: Essentially odorless.

Odor Threshold: Not applicable.

pH: Not applicable. **Evaporation Rate:** Not applicable.

Melting Point: No data.

Freezing Point: Not applicable.

Boiling Point: Not applicable.

Flash point: Not applicable.

Auto-Ignition Temperature: Not applicable.

Decomposition Temperature: Not applicable.

Flammability (solid, gas): Not applicable.

Lower Flammable Limit: Not applicable.

Upper Flammable Limit: Not applicable.

Vapor Pressure: Not applicable.

Relative Vapor Density at 20°C: Not applicable.

Relative Density: Not applicable.

Specific Gravity: 2.6

Solubility: Negligible in water.

Partition Coefficient—N-Octanol/Water: Not applicable.

Viscosity: Not applicable.

Explosion Data—Sensitivity to Mechanical Impact: Not applicable.

Explosion Data—Sensitivity to Static Discharge: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY Hazardous reactions are not expected to occur under normal conditions.

10.2 CHEMICAL STABILITY Stable.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS Not applicable.

10.4 CONDITIONS TO AVOID Not applicable.

10.5 INCOMPATIBLE MATERIALS Not applicable.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Skin Contact: Product is abrasive and may irritate unprotected skin.

Eye Contact: When product is shaped or cut, chips or dust may enter unprotected eyes and cause injury or irritation.

Inhalation: When product is shaped or cut, respirable dust may be generated that, when inhaled, can cause respiratory system irritation. Prolonged or repeated inhalation exposure may cause chronic illness.

Ingestion: Not expected to be an exposure route of concern.

11.2 SYMPTOMS RELATED TO PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS

Immediate Effects: Irritation of skin, eyes, and respiratory tract due to abrasion or dust inhalation will produce immediate discomfort, and first aid provided.

Delayed and Chronic Effects: Inhalation of dust on a prolonged or repeated basis may result in chronic lung disease or silicosis and may also result in lung cancer.

11.3 NUMERICAL MEASURES OF TOXICITY

The acute and chronic effects of exposure to this product's fumes/dust have not been quantified.

11.4 CARCINOGENICITY

The ingredient quartz, also known as crystalline silica, has been determined to be carcinogenic by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP).

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 TOXICITY** No additional information available.
- 12.2 PERSISTENCE AND DEGRADABILITY** Not available.
- 12.3 BIO ACCUMULATIVE POTENTIAL** Not available.
- 12.4 MOBILITY IN SOIL** Not available.
- 12.5 OTHER ADVERSE EFFECTS** Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Waste Disposal Recommendations: Scrap material should be re-used or recycled. Waste is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) (40 CFR 261). Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.

SECTION 14: TRANSPORT INFORMATION

- 14.1 IN ACCORDANCE WITH DOT** Not regulated for transport.
- 14.2 IN ACCORDANCE WITH IMDG** Not regulated for transport.
- 14.3 IN ACCORDANCE WITH IATA** Not regulated for transport.
- 14.4 IN ACCORDANCE WITH TDG** Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1 U.S. FEDERAL REGULATIONS

SARA Section 311/312 Hazard Classes

Exempt article [40 CFR 370.13(b)].

SARA Section 313 Emission Reporting

This product may contain constituents listed under SARA (Title III) Section 313, but not in amounts requiring supplier notification under 40 CFR Part 372, Subpart C.

TSCA Inventory

All constituents are included on the Toxic Substances Control Act Chemical Inventory (40 CFR 720).

15.2 U.S. STATE REGULATIONS

State Right-to-Know Laws

This product, as an article, is exempt from hazardous substance inventory reporting under the Massachusetts, New Jersey, and Pennsylvania right-to-know laws.

California Proposition 65—Warning Required

Refer to Section 2.4.

15.3 CANADIAN REGULATIONS

DSL

All ingredients are listed or exempt from inclusion on the Canadian Domestic Substances List (DSL).

WHMIS

Class D, Division 2, Subdivision A – Material causing other toxic effects. Very Toxic—Chronic.



This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all information required by the CPR.

15.4 OTHER: HMIS AND NFPA

HMIS:

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

NFPA:



SECTION 16: OTHER INFORMATION

Party Responsible for Preparation of this Document

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Limitations

The information and recommendations set forth herein are based on data we have in our possession, and we have reason to believe is accurate. It is, however, the user’s responsibility to determine the safety, toxicity, or suitability for his/her own use of the herein described product. Because the actions by others is beyond our control, Westlake Royal Roofing LLC makes no warranty expressed or implied regarding accuracy of the data or the results to be obtained from the use thereof.