

## SAFETY DATA SHEET

Date of Issue: 05/28/2026

### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

**Identity**            **TERRA COTTA**  
**Trade Names**    Glazed Terra Cotta; Pottery; Glazed Structural Products

**Manufacturer**  
 Gladding, McBean  
 601 7th Street  
 Lincoln, CA 95648

**Emergency Telephone Number**  
 916 645-3341

**Telephone Number for SDS Information**  
 CHEMTREC 1 800 424 9300

### SECTION II – HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture**

The classification given below pertains to these products when being cut or ground.

**GHS-US classification**

Carcinogenicity 1A  
 Specific Target Organ Toxicity - Repeated Exposure 1

**Label Elements**

Hazard pictograms (GHS-US) GHS07 & GHS08



**Signal Word (GHS-US)**

**Danger**

**Hazard Statements (GHS-US)**

May cause cancer. Causes damage to lungs through prolonged or repeated exposure.

**Precautionary Statements (GHS-US)**

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. Do not breathe dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or concerned: Get medical advice/attention. Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards**

No additional information available.

**Unknown acute toxicity (GHS-US)**

50% of the mixture consists of ingredient(s) of unknown acute toxicity.

### SECTION III - PRODUCT AND COMPONENT DATA

<u>Body Composition</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>EXPOSURE LIMITS</u>	
			<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Clay (Aluminum Silicates)	Various	>70%	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
Grog	Various	>29%	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
Barium Carbonate	513-77-9	<1%	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>

### Fused Glaze Composition consists of three or more of the following

Clays (Aluminum Silicates)	Various	>40%	10 mg/m <sup>3</sup>	15mg/m <sup>3</sup>
Silica Quartz	14808-60-7	>20%	0.025 mg/m <sup>3</sup>	<b>See Below</b>
Calcium Oxide	1305-78-8	>15%	2 mg/m <sup>3</sup>	5mg/m <sup>3</sup>
Barium Oxide	1304-28-5	>10 %	0.5 mg/m <sup>3</sup>	0.5mg/m <sup>3</sup>
Felspathic (alkaline aluminum silicates)	Various	>50%	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Zinc Oxide	1314-13-2	>10 %	2 mg/m <sup>3</sup>	5mg/m <sup>3</sup> (Resp)
Zirconium Silicate	14940-68-2	> 5 %	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Coloring Pigments	Various	0.1-10%		

Crystalline Silica (Quartz) 14808-60-7 OSHA PEL for crystalline silica  
as respirable dust = 0.05 mg/m<sup>3</sup>

### Additional Exposure Limits

Coloring Pigments contain one or more of the following compounds:

<u>COMPOUND</u>	<u>CAS NUMBER</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Cobalt Aluminate	68186-86-7	0.02 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Alumina	1344-28-1	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
Chromium (III)- Hematite	68909-79-5	0.003 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Antimony, Chromium III, & Nickel Spinel	68186-88-9	0.003 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Zirconium	7440-64-7	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Vanadium Pentoxide	1314-62-1	0.05 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>

Coloring pigments are mixed phase metal oxides that are the result of high temperature calcination. Although they consist of metal and oxygen atoms arranged in unique crystal structures, their toxicological properties are not considered to be those of either metal or metal oxides.

Abbreviations: TWA = time weighted average 8-hour exposure basis; TLV = threshold limit value of the American Conference of Governmental Industrial Hygienists (ACGIH); OSHA PEL = permissible exposure limit of the Occupation Safety and Health Administration (OSHA); mg/m<sup>3</sup> = milligrams of substance per cubic meter of air.

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## SECTION IV - FIRST AID INFORMATION

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### FIRST AID

**Eyes** Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing. If contact lenses are worn, remove them if easy to do. Contact a physician if irritation persists or later develops.

**Skin** Flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Contact a physician if irritation persists or later develops.

**Inhalation** If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**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 if you feel unwell.

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**SECTION V – PHYSICAL / CHEMICAL CHARACTERISTICS**

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Boiling Point:	NA	Specific Gravity (H <sub>2</sub> O = 1):	2.6
Vapor Pressure (mm Hg):	NA	Melting Point:	NA
Vapor Density (Air = 1):	NA	Evaporation Rate:	
Solubility in Water:	0	(Butyl Acetate = 1)	NA

Appearance and Odor: Vitrified solid, essentially odorless, wide range of colors

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**SECTION VI - FIRE AND EXPLOSION HAZARD DATA**

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Flash Point (Method Used): NA	Flammable Limits: NA LEL: NA UEL: NA
Extinguishing Media: NA	Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None	

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**SECTION VII - REACTIVITY DATA**

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Stability: Unstable: Stable: X	Conditions to Avoid: None
Incompatibility (Materials to Avoid): None known	
Hazardous Decomposition or Byproducts: None known	
Hazardous Polymerization: May Occur: Will Not Occur: X	Conditions to Avoid: None

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**SECTION VIII – TOXICOLOGICAL INFORMATION**

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**Information on Toxicological Effects**

Acute toxicity : Not classified.

**GMB Terra Cotta**

LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	May cause cancer. Cutting, crushing or grinding product will release respirable crystalline silica.

**Quartz (14808-60-7)**

IARC group 1	Carcinogenic to humans
National Toxicology Program (NTP) Status 2	Known Human Carcinogens
Reproductive toxicity	Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) Causes damage to lungs through prolonged or repeated exposure. Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity

of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

Aspiration hazard	Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	Dust may cause respiratory tract irritation.
Symptoms/injuries after skin contact	Dust may cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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## SECTION IX – ECOLOGICAL INFORMATION

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<b>Toxicity</b>	Ecology - general	No known significant effects or critical hazards.
<b>Persistence and Degradability</b>		Persistence and degradability Not established.
<b>Bioaccumulative Potential</b>		Bioaccumulative potential Not established.
<b>Mobility in Soil</b>		No additional information available.
<b>Other Adverse Effects</b>		Effect on the global warming. No known ecological damage caused by this product.

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## SECTION X - PERSONAL PROTECTION AND CONTROL MEASURES

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**RESPIRATORY PROTECTION** To minimize exposure to dust and/or crystalline silica, cutting or grinding Terra Cotta and other clay products should be conducted with a wet saw/grinder and with sufficient ventilation. When such controls are not feasible, NIOSH/MSHA approved respirators must be worn in accordance with a respiratory protection program, which meets OSHA requirements as set forth at 29 CFR 1910.134 and ANSI Z88.2-1080 "Practices for Respiratory Protection."

**SKIN PROTECTION** Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.

**EYE PROTECTION** Use safety glasses with side shields. Face shields should also be used when dry sawing Terra Cotta. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated.

**LOCAL EXHAUST** When dry sawing or grinding Terra Cotta, use sufficient local exhaust to reduce the level of respirable dust to the applicable standards set forth in Section III. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice," latest edition.

**SAFETY MEASURES** Wear hard hats and/or steel-toed safety shoes if products may fall from an elevation or be dropped during handling.

**WORK/HYGIENIC PRACTICES** Avoid creating and breathing dust.

**OTHER CONTROL MEASURES** Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet sanding, wet suppression, ventilation, and process enclosures. Respirators must be worn when such controls are not feasible or do not completely control dust generation.

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## SECTION XI - HANDLING AND STORAGE INFORMATION

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED** Use adequate ventilation, dustless vacuum or cleanup systems for handling, storage, and clean up so that airborne dust does not exceed the PEL. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA standards. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty. See also control measures in Section VIII.

**WASTE DISPOSAL METHOD** This material is classed as a non-hazardous solid waste for disposal.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING** None for normal handling and storage. This product is not intended or designed for use as an abrasive blasting medium or for foundry applications and should not be used for those purposes. Do not store near food and beverages or smoking materials.

**OTHER REGULATIONS** Community Right-To-Know. This product is not subject to the reporting requirements of The Emergency Planning and Community Right-To-Know Act of 1986(EPCRA) [40 CFR 370 and 372].



This product can expose you to chemicals including Silica, crystalline (airborne particles of respirable size), which is known to the State of California to cause cancer, and Lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**TRANSPORTATION** DOT Hazard Classification: Not Regulated  
Placard Required: None.

UN/NA Code: None  
Labeling Requirement: None.

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## SECTION XII - OTHER INFORMATION

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The information and recommendations contained herein are based upon the data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful health effects that may be caused by exposure to airborne dust particles created by dry sawing or grinding of our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

2026-05-28 - Updated P65 Warning.