

**SAFETY DATA SHEET (SDS)**

Reviewed On:

**Section 1. Identification : Sculptural Textural Liquid Glazes**

GLW49 Peking Blue Crackle, GLW50 Dragon Scale Crackle, GLW51 Wu Blue Crackle,  
GLW53 Yangtze Crackle Liquid Glaze

**Details of the supplier of the safety data sheet**

*This Safety Data Sheet has been updated in accordance with the Global Harmonized System (GHS)*

**Manufacturer/Supplier:**

**Georgies Ceramic and Clay Co.**  
756 N.E. Lombard St.  
Portland, OR 97211  
Tel: (503) 283-1353  
Fax: (503) 283-1387

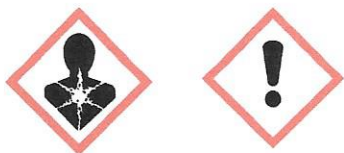
**Information Department:** *Technical Department (503) 283-1353*

**Emergency Telephone Number:**

*CHEMTREC 24-Hour Emergency Response Telephone Number: (800) 424-9300*

**Section 2. Hazard(s) Identification**

Warning Word(s) : Danger



Each Liquid glaze family is a non-hazardous water based mixture of ceramic material .

Stoneware Glazes are a mixture of ceramic material containing, water, non-leaded frits, clay and other minerals and color pigments. Contains potential carcinogens: Crystalline silica (quartz), as an inhalation hazard, may be present if:

- Unfired, dried glaze is excessively handled and allowed to create dust.
- Mist is present after Spray application.

A few pigments may contain a very small amount of zirconium encapsulated cadmium, titanium dioxide and other metals. Other ingredients present have no known acute toxicity.

INGREDIENT	MAX%	CAS #	OSHA PEL TWA:(mg/m3)	NIOSH REL TWA:(mg/m3)	ACGIH TLV TWA:(mg/m3)
Silica	30%	14808-60-7	10mg/m3 / %SiO <sub>2</sub> +2	0.05	0.05

Copper or Copper Compound	.5-4%	12069-69-1	0.2mg/m3(fume) (as Cu) 1 mg/m3 (dust & mist,as Cu)	0.1 mg/m3(fume) (as Cu) 1 mg/m3 (dust & mist ,as Cu)
Lithium Catbonate	1% - 4%	554-13-2	15 mg/m3(total dust) 5( resirable fraction)	

### Section 3. Composition/Information On Ingredients

INGREDIENT NAME	CAS #	RANGES OF PERCENTAGES
Water	7732-18-5	45 % - 60%
Feldspar	12168-80-8	25% - 30%
Clay/Kaolin	1332-58-7	5% -10%
Frit	65997-18-4	30% - 40%
Calcium Silicate	471-34-1	5% - 10%
Silica	14808-60-7	15%- 20%
Copper Carbonate	12069-69-1	1% - 2%
Umber, Burnt	12713-03-0	5% - 10%
Zirconium Silicate	149040-68-0	1% - 5%
Pigments	varies	varies
Lithium Carbonate	554-13-2	1% - 4%

### Section 4. First-Aid Measures

1. Inhalation: May cause irritation. Remove from exposure.
2. Skin: May cause irritation. Wash skin with soap and water.
3. Eyes: May cause irritation. Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing contact physician.
4. Ingestion : Contact a physician.

### Section 5. Fire-Fighting Measures

Special Fire-Fighting Procedure – None  
Extinguishing Media – None  
Unusual Fire or Explosion Hazards- None  
Hazardous Combustion Products - None

### Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and /or Emergency Procedures : None  
Enviromental Precautions : None  
Methods for containment and clean up : Wipe / Mop spill area and rinse with water.

### Section 7. Handling and Storage

Precautions for Safe Handling : Ventilation- Local exhaust is spray application is used.  
Work/ Hygienic Practices : Food, beverages, and smoking materials should not be in the work area. Wash thoroughly before eating, drinking, smoking.  
Conditions for Safe Storage, Including Incompatibilities : None

## Section 8. Exposure Controls/Personal Protection

**Exposure Limits** – These non-hazardous liquid glazes are water based mixtures of ceramic material containing non-leaded frits, clay, silica and other minerals and color pigments.

These mixtures have no TLV or PEL

**Engineer Control** – Adequate ventilation ( local exhaust) if sprayed.

**Personal Protective Equipment** – For Spray application – eye protection, respirator and protective clothing such as aprons.

## Section 9. Physical and Chemical Properties

Incompatible Material : None	Viscosity: N/A	pH: N/A
Appearance :Liquid	Vapor Pressure: N/A	
Odor and Odor Threshold: None to Earthy	Vapor density : N/A	
Flash Point : None	Flammability: None	
Auto Ignition Temperature: None	Evaporation Rate : None	
Boiling Point/Range: N/A	Partition Coefficient(octanol/water): N/A	
Freezing point: 32F	Relative Density: N/A	
Solubility in Water: Partial	Decompositional Temperature: N/A	

## Section 10. Stability and Reactivity

Reactivity: None Known  
Chemical Stability: Stable  
Possibility of Hazardous Reactions: None Known  
Conditions to Avoid : Fumes from Firing in the kiln, Mist created from spray application  
Incompatible Material : None  
Hazardous Decomposition or By-Products: None Known

## Section 11. Toxicological Information

Primary Route(s) of Entry: Dermal, Inhalation ( if Sprayed)

Hazard to Humans: None during normal use. The Highest Threat of inhalation exists during excessive handling of dry, unfired glazeware and /or during spray application.

Acute Toxicity: N/A	Carcinogenicity: N/A
Skin Corrosion,Irritation: N/A	Reproductive Toxicity: N/A
Serious Eye Damage/ Irritation: N/A	STOT – Single Exposure : N/A
Respiratory / Skin Sensitization: N/A	STOT – Repeated Exposure: N/A

Germ Cell Mutagenicity: N/A

Aspiration Hazard: N/A

**Additional Information:**

These mixtures contain silica, a known carcinogen. Inhalation is the route of entry into the body that can lead to the development of silicosis.

These water based, liquid premixed products should be non-toxic during recommended use.

Some of the pigments may contain small amounts of various metals (Sn, Mn, Cu, TiO<sub>2</sub>, Fe, Co, Cr, Ni, Cd), some of which are considered carcinogenic. The metals in pigments may be in the form of frits, spinel or formed from high temperature calcination that may have a different bioavailability than the metal itself. **Silica and pigments in the glazes should be non-toxic during regular use.**

**Section 12. Ecological Information (non-mandatory)**

Ecotoxicity: None

Persistence: Yes

Biodegradability: No

Bioaccumulation: No

Mobility in Soil: No

Other Adverse Effects: None

**Section 13. Disposal Consideration (non-mandatory)**

Follow Local, State and Federal Regulations

**Section 14. Transport Information (non-mandatory)**

UN Number: None

UN Proper Shipping Name: None

Transportation Hazard Class: NA

Packing Group: None

Environmental Hazard: None

Special Precautions: None

**Section 15. Regulatory Information (non-mandatory)**

Federal, State and local regulations not provided elsewhere in the SDS:

**National Regulations:**

- TSCA: all components of these products are on the US TSCA Inventory
- SARA: Section 313 Toxic Chemicals: None
- IARC, OSHA and NTP: Silica(Quartz), Titanium Dioxide, Cobalt, Nickel and Chromium are listed on the carcinogen list.

**California:**

-Proposition 65: Silica (Quartz), Titanium Dioxide, Cobalt, Nickel and Chromium are the carcinogen list.

**Chemical Safety Assessment:**

Conforms to ASTM D4236. This material has been evaluated under the provisions of the LHAMA (Labeling of Hazardous Art Materials Act). These products are judged to be non-toxic and non-flammable under proposed use conditions. No special warning is required under the provisions of LHAMA or California Proposition 65 during use.

**Section 16. Other Information**

Georgies glazes do not contain any products and / or ingredients derived from nuts, peanuts, eggs, milk, or gluten. Georgies glazes do not contain latex.

This information is furnished with out warranty, representation, inducement or license of any kind. It is accurate to the best knowledge of Georgies Ceramic and Clay Co., or obtained from sources believed to be accurate.

Georgies Ceramic and Clay does not assume any leagal responsibility for use or reliance on same. Customers are encouraged to conduct their own tests before using any product. Read the product label.

Acronyms used in the SDS:

- |  |                                     |
|--|-------------------------------------|
| - CAS# : Chemical Abstracts Service Number           | - NTP: National Toxicaology Program |
| - TSCA: Toxic Substances Control Act                 | - PEL: Permissible Exposure Limit   |
| - SARA: Superfund Amendments and Reauthorization Act | - TLV Threshold Limit Values        |
| - IARC: International Agency for Research on Cancer  |                                     |
| - OSHA: Occupational Safety And Heath Administration |                                     |

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