

**SAFETY DATA SHEET (SDS)**

Reviewed On:

Section 1. Identification: ^6 Liquid Glaze and Pigments**Trade Name: PG600 LIQUID GLAZE Series 1 – Gloss Glazes**

PG620 Transparent, PG601 Perfect White, PG602 Incredible Black, PG607 Nassau Blue, PG608 Cobalt Blue, PG611 Grape, PG614 Grass Green, PG615 Celedon, PG616 Buckwheat, PG621 Wonder Red, PG622 Flame Orange, PG624 Ripe Apple Red, PG626 Golden Yarrow, PG628 Shiney Turquoise, PG629 Super Clear, PG630 Zinc Free Clear, PG632 Blue Ink, PG633 Pacific Blue, PG634 Scotch Pine, PG635 Black Patent, PG636 Aegean Blue-Green, PG637 Tutu Pink, PG638 Blue Violet, PG639 Hot Orchid, PG640 Lavendar Lupin, PG641 White Cloud, PG642 Blizzard Blue, PG644 Red Satin, PG647 Burnt Orange, PG646 Maroon, PG649 Grey, PG650 Brown, PG651 Mottled Brown, PG652 Chartreuse Gloss, PG653 Golden Green

GLW SCULPTURAL & TEXTUAL GLAZES -

GLW02 Blue Jeans, GLW03 Avocado Ice, GLW04 Peanut Ash Matte, GLW06 Liquid Luster Bronze, GLW08 Copper Patina, GLW10 Midnight Blue, GLW12 Eggshell Wash, GLW13 Sage Green, GLW15 Jujube, GLW16 Faux Ash Teal, GLW17 Turquoise Lagoon, GLW19 Moss Thicket, GLW21 Raw Honey, GLW22 Rusty Nails, GLW23 White Froth, GLW25 Aqua Gemstone, GLW26 Mustard Wood Ash, GLW27 Emerald Wood Ash, GLW28 Sapphire Wood Ash, GLW30 Cinnamon, GLW31 Dry Rust, GLW32 Latte, GLW34 Ohata, GLW36 NW Woods Matte, GLW37 Pure White Matte, GLW39 Vanilla Creme Matte, GLW40 Golden Raspberry Matte, GLW41 Cool Lime Green Matte, GLW42 Blueberry Matte, GLW43 Bright Blue Matte, GLW44 Black Matte, GLW45 Plum Black, GLW46 Northern Lights, GLW47 Kalamata, GLW48 Cicada Crackle, GLW49 Peking Blue Crackle, GLW50 Dragonscale Green Crackle, GLW51 Wu Blue Crackle, GLW53 Crackle, GLW54 Paprika Matte, GLW55 Turmeric Matte, GLW56 Chartreuse Matte, GLW57 Dusty Blue Matte.

Interactive Pigments-

IP202 Tree Bark, IP203 Golden Straw, IP205 Autumn Foliage, IP206 Sand and Surf, IP207 Steel Black, IP211 Wormwood, IP212 Indigo

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:

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Information Department: Technical Department (503) 283-1353

Emergency Telephone Number:

CHEMTREC 24-Hour Emergency Reponse 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 / %SiO2 +2	0.05	0.05
Cobalt or Cobalt Compounds	1-2%	7440-48-4	0.1		0.02
Nickel or Nickel Compounds		7440-02-0	1	0.015	0.2
Manganese Dioxide	~.004 %	1313-13-9	5mg/m3		0.1mg/m3
Zinc or Zinc Compounds	3-12%	7440-66-6	5	5	5
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)

Section 3. Composition/Information On Ingredients

INGREDIENT NAME	CAS #	RANGES OF PERCENTAGES
Water	7732-18-5	45 % - 60%
Feldspar	12168-80-8	25% - 35%
Clay/Kaolin	1332-58-7	5%-13%
Silica	14808-60-7	19%-30%
Dolomite	16389-88-1	5%-10%
Zinc Oxide	1314-13-2	1%-5%

Calcium Silicate	13983-17-0	5% - 12%
Frit	65997-18-4	1% - 44%
Calcium Carbonate	471-34-1	13% -14%
Alumina Oxide	1344-28-1	5% - 10%
Zirconium Silicate	14940-68-2	8% - 10%
Rutile	1317-80-2/103170-28-1	3% - 8%
Titanium Dioxide	13463-67-7	3% - 7%
Iron Oxide	1309-37-1	1% - 3%
Tin Oxide	18282-10-5	3% - 8%
Pigments	varies	varies

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 mixyures 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 tThreshold: 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(octonal/water): N/A	
Freezing point: 32F	Relative Density: N/A	
Soluability in Water: Partial	Decompositional Temperture: N/A	

Section 10. Stability and Rectivity

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

Skin Corrosion,Irritation: N/A

Serious Eye Damage/ Irritation: N/A

Respiratory / Skin Sensitization: N/A

Germ Cell Mutagenicity: N/A

Carcinogenicity: N/A

Reproductive Toxicity: N/A

STOT – Single Exposure : N/A

STOT – Repeated Exposure: N/A

Aspiration Hazard: N/A

Additional Information:

These mixtures contain silica, a know 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, TiO2, Fe, Co, Cr, Ni, Cd), some of which are considered carcenogenic. The maetals in pigments may be in the form of frits, spinel or formed from high tempertaure 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 legal 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 Toxicology Program

- TSCA: Toxic Substances Control Act
- SARA: Superfund Amendments and Reauthorization Act
- IARC: International Agency for Research on Cancer
- OSHA: Occupational Safety And Heath Administration
- PEL: Permissible Exposure Limit
- TLV Threshold Limit Values

Date Prepared August 30,2017