



# Crystal Glazes

## SECTION 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER

**Product Identification:** Crystalite™ and Jungle Gem™ Glazes

**Product Usage:** Glazing of ceramic ware

**Product Identifier Codes:**

**Crystalite™ Glazes:** S-2701 Peacock Eyes, S-2701 Northern Lights, S-2703 Berryberry Pie, S-2704 Plum Jelly, S-2708 Oriental Carmel, S-2709 Cappuccino Mint, S-2711 Tahiti Grape, S-2712 Monsoon Seas, S-2713 Buttercup Blue, S-2714 Herb Garden, S-2715 Spotted Kiwi, S-2716 Celestial Blue, S-2718 Cosmic Black, S-2723 Grape Divine, S-2724 Lotus Blossom, S-2725 Safari, S-2726 Cheetah, S-2727 Poppy Fields, S-2729 Citrus Splash, S-2731 Kaboom

**Jungle Gem™ Glazes:** CG-707 Woodland Fantasy, CG-713 Peacock Green, CG-716 Pagoda Green, CG-717 Pistachio, CG-718 Blue Caprice, CG-722 Seawind, CG-750 Noel, CG-753 Sassy Orange, CG-756 Firecracker, CG-772 Sand Petal, CG-779 Black Opal, CG-780 Mystic Jade, CG-783 Strawberry Sundae, CG-785 Royal Fantasy, CG-786 Obsidian, CG-788 Dutch Enamelware, CG-795 Yadro Print, CG-798 Black Iris, CG-954 Wildfire, CG-958 Lagoon Blue, CG-961 Evergreen, CG-962 Blue Azure, CG-963 Lemon Lime, CG-964 Kaleidoscope, CG-985 Mocha Marble, CG-966 Tiger Lily, CG-967 Green Agate, CG-968 Peppermint Twist, CG-969 Floral Fantasy, CG-970 Masquerade, CG-971 Purple Cosmos, CG-972 Dragon Breath, CG-973 Alligator, CG-974 Bloomin' Blue, CG-975 Sky Diamonds, CG-976 Teal Drop, CG-977 Ink Spot

<b>Manufacturer:</b>	Coloramics, LLC (D.B.A. Mayco Colors)
	4077 Weaver Court South
	Hilliard, Ohio 43026
	United States of America
	(614) 876-1171

IN CASE OF EMERGENCY PLEASE CONTACT YOUR REGIONAL/LOCAL POISON CONTROL CENTER

## SECTION 2: HAZARDS IDENTIFICATION

**Classification of mixture:** Non-classified (1999/45/EEC)

Each glaze family is 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.

**GHS Label Elements:** None Required

**Other Hazards:** None known

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Each glaze family contain proprietary mixtures of ceramic materials (listed below) and color pigments. The Crystalite™ and Jungle Gem™ glaze lines are classified as non-hazardous.

Ingredients	CAS #	Ranges of Percentages
Water	7732-18-5	39.0% - 46.7%
Frit	65997-18-4	29.3% - 38.4%
Clay/Kaolin	1332-58-7	3.1% - 5.4%
Zinc Oxide	1314-13-2	0.0% - 0.9%
Bentonite	1302-78-91	0.0% - 0.7%
Nepheline Syenite	1344-28-1	0.0% - 9.4%
Calcium Carbonate	471-34-1	0.0% - 2.3%
Zirconium Silicate	14940-68-2	0.0% - 4.6%
Carboxymethylcellulose	9004-34-2	0.0% - 0.6%
Proxel	75037-67-1	0.1%
Pigments	varies	varies

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### SECTION 4: FIRST-AID MEASURES

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

**Important Symptoms/Effects:** None Known

**Immediate Medical Attention/Special Treatment:** None Known

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## SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** None
  - **Specific Hazards Arising From Chemical:** None
  - **Special Protective Equipment and Precautions for Fire Fighters:** None
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions, Protective Equipment and/or Emergency Procedures:** None
  - **Environmental Precautions:** None
  - **Methods and Materials for Containment and Clean-Up:** Wipe/Mop spill area and rinse with water
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## SECTION 7: HANDLING AND STORAGE

- **Precautions for Safe Handling:** Ventilation - local exhaust if 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, or applying cosmetics.
  - **Conditions for Safe Storage, Including Incompatibilities:** None
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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	CAS #	PEL	TLV
Zinc Oxide	1314-13-2	5 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>
Calcium Carbonate	471-34-1	5 mg/m <sup>3</sup>	10.0 mg/m <sup>3</sup>

Remaining main glaze ingredients do not have formal Exposure Limits. Some pigments contain metals that have exposure limits (Co, TiO<sub>2</sub>, Cu, Cr, Mn) but are used in low levels.

These glazes are non-hazardous liquid mixtures of ceramic materials containing, water, non-leaded frits, clay, and other minerals and color pigments. These mixtures have no TLV or PEL

- **Engineer Control:** Adequate ventilation (local exhaust) if spray application is used.
  - **Respiratory Protection:** Use a NIOSH approved respirator if spray application is used.
  - **Protective Gloves:** Not normally needed.
  - **Eye Protection:** Wear appropriate eye protection or safety glasses to keep mist out of eyes if spray application is used.
  - **Personal Protective Clothing or Equipment:** Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons.
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colored and/or Clear Liquid Mixtures
<b>Odor/Odor Threshold:</b>	Negligible
<b>PH:</b>	N/A
<b>Boiling Point/Range:</b>	N/A
<b>Freezing point:</b>	32°F
<b>Flash Point:</b>	None
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>Flammability:</b>	None
<b>Evaporation Rate:</b>	None
<b>Upper/Lower Explosive Limits:</b>	None
<b>Partition Coefficient (octanol/water):</b>	N/A
<b>Relative Density:</b>	N/A
<b>Solubility in Water:</b>	Partial
<b>Decompositional Temperature:</b>	None
<b>Viscosity:</b>	N/A
<b>Auto ignition temperature:</b>	None

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## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	None Known
<b>Chemical Stability:</b>	Stable
<b>Possibility of Hazardous Reactions:</b>	None Known
<b>Conditions to Avoid:</b>	Fumes from firing in kiln; Mist created from spray application.
<b>Incompatible Material:</b>	None Known
<b>Hazardous Decomposition or By-Products:</b>	None Known

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## SECTION 11: TOXICOLOGY INFORMATION

**Primary Route(s) of Entry:** Dermal, Inhalation.

**Hazard to Humans:** None during normal use. The highest threat of inhalation exists during the excessive handling of dried, unfired glazed ware 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 know carcinogen. Inhalation is the route of entry into the body that can lead to the development of Silicosis.

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

Some of the pigments may contain small amounts of various forms of metals (Sn, Mn, TiO<sub>2</sub>, Cu, Zr, V, Fe, Co, Cr, Ni, Cd ), some of which are considered carcinogenic. The metals in pigments may be in 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 glaze should be non-toxic during recommended use.

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	None
<b>Biodegradability:</b>	No
<b>Mobility in Soil:</b>	No
<b>Persistence:</b>	Yes
<b>Bioaccumulation:</b>	No
<b>Other Adverse Effects:</b>	None

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## SECTION 13: DISPOSAL CONSIDERATIONS

Follow local, state and federal regulations.

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## SECTION 14: TRANSPORTATION INFORMATION

Product Identifier: Non-Hazardous Mixtures

UN Shipping Name: N/A

UN Number: None

Environmental Hazard: None

Packing Group: None

Transportation Hazard Class: N/A

Special Precautions: None

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## SECTION 15: REGULATORY INFORMATION

## **Federal, State and Local regulations not provided elsewhere in the SDS:**

### **National Regulations:**

United States:

- 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.

### **State Regulations:**

California

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

### **Chemical Safety Assessment:**

Conforms to ASTM D 4236 This material has been evaluated under the provisions of LHAMA (Labeling of Hazardous Art Material Act). This product is 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.

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## **SECTION 16: ADDITIONAL INFORMATION**

Mayco Glazes do not contain and products and/or ingredients derived from nuts, peanuts, eggs, milk, or gluten.  
Mayco Glazes do not contain latex.

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Acronyms used in this SDS:

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

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