

30443-XXXX

**SECTION 1: IDENTIFICATION OF SUBSTANCE AND SUPPLIER****Product Identification:** Elements™ Glazes**Product Usage:** Glazing of ceramic ware**Product Identifier Codes:**

**Opaque Glazes:** EL-101 Oyster Shell, EL-102 Sandstorm, EL-103 Sea Spray, EL-105 River Birch, EL-106 Tidal Pool, EL-107 Amber Ash, EL-108 Jade Moss, EL-110 Mudslide, EL-111 Ruby Creek, EL-112 Tornado Sky, EL-113 Spanish Moss, EL-117 Waterfall, EL-118 Blue Grotto, EL-119 Burnished Steel, EL-120 Black Ice, EL-121 Copper Aventurine, EL-122 Malachite, EL-123 Patina, EL-124 Stormy Blue, EL-125 Sahara Sands, EL-127 Rose Granite, EL-128 Wheat, EL-129 Slate, EL-130 Sea Green, EL-131 Turtle Shell, EL-132 Rust Red, EL-133 Autumn, EL-134 Mirror Blue, EL-135 Rare Earth, EL-136 Lapis Lagoon, EL-137 Black Aventurine, EL-138 Desert Canyon, EL-139 Nectar, EL-140 Toasted Almond, EL-141 Aged Bronze, EL-142 Grass, EL-143 Cactus Flower, EL-144 Dark Amethyst, EL-145 Ginger Root, EL-146 Rain Cloud, EL-147 Creek Bed, EL-148 Smoked Lilac, EL-149 Lavender Flower, EL-150 Fern, EL-151 Deep Water, FN-215 Aztec Jade, FN-217 Evergreen Fir, FN-218 Green Sapphire, FN-219 Lustre Green

<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

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Each glaze family contain proprietary mixtures of ceramic materials (listed below) and color pigments. The Elements™ glaze line is classified as non-hazardous.

Ingredients	CAS #	Ranges of Percentages
Water	7732-18-5	46.1% - 53.2%
Frit	65997-18-4	36.6% - 44.4%
Clay/Kaolin	1332-58-7	2.9% - 5.5%
Zinc Oxide	1314-13-2	0.8% - 2.0%
Bentonite	1302-78-91	0.0% - 1.3%
Aluminum Oxide	1344-28-1	0.0% - 2.1%
Cryolite	15096-52-3	0.0% - 4.8%
Zirconium Silicate	14940-68-2	0.0% - 4.3%
Carboxymethylcellulose	9004-34-2	0.4% - 0.7%
RM60C	N/A	0.0% - 17.5%

### 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

### 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
Aluminum Oxide	1344-28-1	5 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>
Zinc Oxide	1314-13-2	5 mg/m <sup>3</sup>	2.0 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-lead 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.

## 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

**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

**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 known 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.

**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

**SECTION 13: DISPOSAL CONSIDERATIONS**

Follow local, state and federal regulations.

**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

**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.

**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

<b>Prepared:</b>	July 17, 2014
<b>Updated:</b>	September, 1, 2020