83491-1006

STONEWARE GLAZES

SAFETY DATA SHEET (SDS)

Version: 04
Date of Issue: August 31, 2026

According to: OSHA Hazard Communication Standard 29 CFR 1910.1200(g) Rev. 2024, WHMIS 2015 (Hazardous Products Regulations), UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 11th Revision

This SDS was developed in accordance with regulations applicable to handling materials in an industrial / workplace setting. The information presented in this document may not be relevant to consumer use. Safety information pertaining to consumer use is provided on the product label and Section 16 of this SDS.

Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name:	STONEWARE GLAZES
Product Colors:	BLACK WALNUT (SW104), GREEN TEA (SW108), OLIVINE (SW127), ANTIQUE MIRROR BLACK (SW132), AURORA GREEN (SW146), OLIVE FLOAT (SW151), SATIN PATINA (SW164), SAND & SEA (SW167), ANTIQUE BRASS (SW182), OXBLOOD (SW183), SPECKLED TOAD (SW184), RAINFOREST (SW185), IVY (SW193), EMERALD (SW210), MICRO PEARL (SW214), MICRO CHAMPAGNE (SW215), MICRO JADE (SW216), MICRO CERULEAN (SW217), MICRO ASH (SW218), BEETLEWING (SW228), MOOD RING (SW229), BLUE OPAL (SW252), COPPER WASH (SW304), LIGHT FLUX (SW401), DARK FLUX (SW402)
Product sizes:	4 fl. oz. (118 mL), 16 fl. oz. (473 mL), 1 gal (3.79 L)
Other Means of Identification:	None known
Product Description:	Colored liquid glaze formulations intended to be applied using a brush and then placed in a kiln for glaze firing.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s): The product is intended for general (adults and students older than those in the 6th grade) arts and crafts purposes.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Coloramics, LLC, DBA Mayco Colors
4077 Weaver Court South
Hilliard, OH 43026 USA
Business Phone: +1 (614) 675-2020
Email: info@maycocolors.com

1.4 Emergency telephone number

Emergency Telephone: National Poison Control: 1-800-222-1222
Transportation Emergencies: CHEMTREC: +1-800-424-9300

Section 2 – Hazard(s) Identification

2.1. Classification of the substance or mixture

According to: OSHA Hazard Communication Standard 29 CFR 1910.1200(g) Rev. 2024; WHMIS 2015 Hazardous Products Regulations; UN Globally Harmonized System of Classification and Labelling of Chemicals, 11th Revised Edition (GHS)

Health	Physical
Not classified	Not classified

2.2. Label elements

Label Pictogram: None required
Signal Word: None required
Hazard statements & Precautions: None required
Supplemental Hazard Information:

- Contains ingredients that may cause gastrointestinal irritation if swallowed. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not spray apply without personal protective equipment. Avoid Dust. KEEP OUT OF REACH OF CHILDREN. If swallowed or concerned: Call a doctor.

2.3. Other hazards

- Substances when carried in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids are not subject to any other provisions of ADR provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Should the single or inner packaging condition or provisions not be met, transportation restrictions will need to be revisited.
- No other hazards have been identified for this product.

Section 3 – Composition / Information on Ingredients

3.1 Substance

The product is a mixture and not a substance.

3.2 Mixture

Chemical Name	CAS No.	EC No.	% Concentration by weight (w/w)	GHS Hazards
Feldspar	68476-25-5	270-666-7	<= 26.0%	H335: Specific target organ toxicity (single exposure, Category 3 - respiratory irritation); H319: Eye irritation (Category 2)
Crystalline silica	14808-60-7	238-878-4	<= 23.0%	H350: Carcinogenicity (Category 1A) (inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1 - lungs)
Copper oxide	1317-38-0	215-269-1	<= 22.0%	H400: Acute aquatic toxicity (Category 1; M=100); H410: Chronic aquatic toxicity (Category 1; M=10)
Manganese dioxide	1313-13-9	215-202-6	<= 17.0%	H332: Acute inhalation toxicity (Category 4) H302: Acute oral toxicity (Category 4)
Zinc oxide	1314-13-2	215-222-5	<= 13.0%	H400: Acute aquatic toxicity (Category 1); H410: Chronic aquatic toxicity (Category 1)
Cobalt (II) oxide	1308-06-1	215-157-2	<= 1.7%	H350: Carcinogenicity (Category 1A) (inhalation); H334: Respiratory sensitization (Category 1); H317: Skin sensitization (Category 1); H411: Chronic aquatic toxicity (Category 2)
Copper sulfate pentahydrate	7758-99-8	616-477-9	<= 0.3%	H302: Acute oral toxicity (Category 4); H318: Eye damage (Category 1); H400: Acute aquatic toxicity (Category 1; M=100); H410: Chronic aquatic toxicity (Category 1; M=10)

Chemical Name	CAS No.	EC No.	% Concentration by weight (w/w)	GHS Hazards
Zinc pyrithione	13463-41-7	236-671-3	<= 0.012%	H360D: Reproductive toxicity (Category 1B) (May damage the unborn child); H330: Acute inhalation toxicity (Category 2); H301: Acute oral toxicity (Category 3); H318: Eye damage (Category 1); H372: Specific target organ toxicity (repeated exposure, Category 1); H400: Acute aquatic toxicity (Category 1; M=1000); H410: Chronic aquatic toxicity (Category 1; M=10)
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	<= 0.012%	H330: Acute inhalation toxicity (Category 2); H302: Acute oral toxicity (Category 4); H315: Skin irritation (Category 2); H318: Eye damage (Category 1); H317: Skin sensitization (Category 1A; C ≥ 0.036%); H400: Aquatic acute toxicity (Category 1); H410: Aquatic chronic toxicity (Category 1)

[a] Concentrations are calculated as a maximum across all colors, rather than by color.

The other ingredients in the product are either considered non-hazardous or are below their respective GHS cut-off values/concentration limits in the final product and were therefore not disclosed in the SDS.

Zinc oxide, copper oxide, and copper sulfate pentahydrate may cause gastrointestinal irritation if swallowed. Gastrointestinal irritation is not considered a GHS Hazard.

The product may contain crystalline silica (CAS No. 14808-60-7) which may be hazardous when inhaled. Given the nature and physical form of the product (*i.e.,* liquid glaze), airborne respirable particles would not likely be released from the product and therefore the hazard is not relevant to the product. It was assumed that the glaze will not be sanded after it has been fired in the kiln.

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eye contact: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and immediately flush eyes with water. If eye irritation persists, contact medical advise/attention.

Skin contact: No specific first aid measures are required. If irritation occurs, wash with plenty of water and soap. Take off contaminated clothing. If skin irritation persists: Get medical advice/attention.

Inhalation: No specific first aid measures are required. Inhalation route of exposure is not anticipated with intended use. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if in doubt.

Ingestion: IF SWALLOWED: Get emergency medical help immediately. Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to **Section 11 - Toxicological Information**.

4.3 Indication of any immediate medical attention and special treatment needed

- Not required.

Section 5 – Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding area if material is involved in a fire (e.g., water fog, foam, dry chemical or carbon dioxide).

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

- Irritating vapors or fumes may form if product is involved in fire:
- Also see **Section 10 - Stability and Reactivity**.

5.3 Advice for firefighters

- Wear a self-contained breathing apparatus to protect against potentially irritating vapors or fumes.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment (PPE) and emergency procedures

Personal Precautions: Do not breathe mist/vapor/spray. Ventilate area if spilled in confined space or other poorly ventilated areas. Observe PPE advice in **Section 8 – Exposure Controls/Personal Protection**.

Emergency Procedures: No specific precautions required. Keep unauthorized personnel away.

6.2 Environmental precautions:

- Prevent entry and contact with soil, drains, sewers, and waterways. Collect spillage. Inform relevant local/regional/national/international authorities. Prevent further leakage or spillage if it is safe to do so.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures: Contain spill if safe to do so. Collect recoverable product and place in a designated container for recycle and/or disposal. Ventilate contaminated area thoroughly. Clean up dusts and small spills with a damp cloth or wet mop. Dispose of contents/container in accordance with local/regional/national/international regulations.

6.4 Reference to other sections

- Refer to **Section 8 - Exposure Controls/Personal Protection** and **Section 13 – Disposal Considerations**.

Section 7– Handling and Storage

7.1 Precautions for safe handling

- Do not breathe mist/vapor/spray.
- Wash hands thoroughly after handling.
- Avoid generating dust
- Wash contaminated clothing before reuse.
- Employees should be trained in the safe use and handling of chemical materials.
- Refer to **Section 8 - Exposure Controls/Personal Protection**.

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed to avoid spills.
- Keep in a cool dry place.

7.3 Specific end use(s)

- Refer to **Section 1.2 - Relevant identified uses**.

Section 8– Exposure Controls / Personal Protection

8.1 Control Parameters:

Occupational exposure limits: Only vapors were considered to be foreseeable under conditions of normal use. Airborne particles, such as dust, are not foreseeable under conditions of normal use.

Zinc oxide (CAS No. 1314-13-2) (also listed as zinc oxide, dust & fume and zinc oxide, fume or respirable dust)

US	OSHA PEL	TWA: 5 mg/m³ (fume and respirable) TWA: 15 mg/m³ (total)
	NIOSH REL	TWA: 5 mg/m³ (fume and dust) STEL: 10 mg/m³ (dust)
	ACGIH TLV	TWA: 2 mg/m³ (respirable particulate matter) STEL: 10 mg/m³ (respirable particulate matter)
Canada	Ontario	TWA: 5 mg/m³ (dust, respirable aerosol) STEL: 10 mg/m³ (dust, respirable aerosol)
	Québec	TWA: 10 mg/m³ (dust) TWA: 2 mg/m³ (respirable fraction) STEL: 10 mg/m³ (respirable fraction, 15 minutes average value)

Copper oxide (CAS No. 1317-38-0) (listed as copper, dusts and mists)

US	OSHA PEL	TWA: 1 mg/m³ (dusts and mists) TWA: 0.1 mg/m³ (fume)
	NIOSH REL	TWA: 1 mg/m³ (except fume) TWA: 0.1 mg/m³ (fume)
	ACGIH TLV	TWA: 1 mg/m³ (dusts and mists) TWA: 0.2 mg/m³ (fume)
Canada	Ontario	TWA: 1 mg/m³
	Québec	TWA: 1 mg/m³

Crystalline silica (CAS No. 14808-60-7) [listed as silica, crystalline, mixed respirable (quartz, cristobalite, tridymite) or quartz]

US	OSHA PEL	TWA: 50 µg/m³ (25 µg/m³ action level)
	NIOSH REL	TWA: 0.05 mg/m³
	ACGIH TLV	TWA: 0.025 mg/m³ (respirable particulate matter)
Canada	Ontario	TWA: 0.1 mg/m³ (respirable aerosol)
	Québec	TWA: 0.1 mg/m³ (respirable fraction)

Cobalt (II) oxide (CAS No. 1308-06-1) [listed as cobalt metal, dust & fume (as Co) / cobalt and its compounds]

US	OSHA PEL	TWA: 0.1 mg/m³
	NIOSH REL	TWA: 0.05 mg/m³
	ACGIH TLV	TWA: 0.02 mg/m³ (inhalable particulate matter)
Canada	Ontario	TWA: 0.02 mg/m³
	Québec	TWA: 0.02 mg/m³

8.2 Exposure Controls:

Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

8.3 Personal Protective Equipment

Note: For consumer use, follow product label directions and warnings when using this product. For industrial use, consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

Respiratory: Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Eyes/Face: If contact is likely, safety glasses with side shields are recommended.

Hands: Use good industrial hygiene practices to avoid skin contact.

Body/Skin: Do not wear rings, watches or similar apparel that could entrap the material.

Thermal Hazards: None known.

Environmental Exposure Controls: Not available.

Hygiene measures: Observe good industrial hygiene practices. Avoid contact with skin. When using the product do not eat, drink or smoke. Keep work area neat and container tightly closed when not in use. Wash hands after handling / before eating, drinking or smoking.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

Appearance: **Physical state:** **Color:** **Odor/Odor threshold:**	 Liquid See **Section 1.1** None	**Partition Coefficient n-octanol/water:** **Auto-ignition temperature:**	 Not available Not available
pH (as supplied):	7.0 – 8.0	**Decomposition temperature:**	Not available
Melting/freezing point:	32°F	**Dynamic viscosity:**	Not available
Boiling point/range:	212°F	**Molecular weight:**	Not available
Flash point:	Not applicable	**Taste:**	Not available
Evaporation rate:	Not available	**Explosive properties:**	Not available
Flammability:	Not available	**Oxidizing properties:**	Not available
Upper/lower explosive limits:	Not available	**Surface tension:**	Not available
Vapor pressure:	Not available	**Volatile component:**	Not available
Water solubility:	Not available	**Gas group:**	Not available
Vapor density (Air = 1):	Not available	**pH (as solution):**	Not available
Specific gravity (Water = 1):	1.2 - 1.3	**VOC:**	Not available
Relative density:	Not available	**Particle size range:**	Not available

9.2 Other information

- No further data available.

Section 10 – Stability and Reactivity

10.1 Reactivity
- This material is not considered to be reactive under normal handling and storage conditions.

10.2 Chemical stability
- This material is considered stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions
- Not expected to occur under normal handling and storage conditions.

10.4 Conditions to avoid
- None known

10.5 Incompatible materials
- Strong acids
- Strong bases
- Strong oxidisers
- Strong reducing agents.

10.6 Hazardous decomposition products
- Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion. Irritating vapors or fumes may form if product is involved in fire.

Section 11 – Toxicological Information

Likely routes of exposure: Skin contact, incidental ingestion.
Potential signs and symptoms: None expected under conditions of normal use.

Acute oral toxicity:	Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute oral toxicity (Category 3), and manganese dioxide (CAS No. 1313-13-9), copper sulfate pentahydrate (CAS No.7758-99-8), and 1,2-benzisothiazolin-3-one (CAS No. 2634-33-5) have been classified for acute oral toxicity (Category 4); however, the product is practically non-toxic based on available animal and human use data. The oral ATE for the whole product is >2000 mg/kg.
Acute dermal toxicity:	The product is practically non-toxic based on available animal and human use data. The dermal ATE for the whole product is >2000 mg/kg.
Acute inhalation toxicity:	Zinc pyrithione (CAS No. 13463-41-7) and 1,2-benzisothiazolin-3-one (CAS No. 2634-33-5) have been classified for acute inhalation toxicity (Category 2), and manganese dioxide (CAS No. 1313-13-9) has been classified for acute inhalation toxicity (Category 4); however, the product is practically non-toxic based on available animal, human use data, and the nature/physical form of the product (*i.e.*, liquid glaze). The inhalation ATE for the whole product is >20 mg/L (vapors).
Skin corrosion/irritation:	1,2-Benzisothiazolin-3-one (CAS No. 2634-33-5) has been classified for skin irritation (Category 2). Product classification is not warranted for skin effects based on the concentration of 1,2-benzisothiazolin-3-one in the product. The other ingredients >1% in the product are not skin irritants based on human and/or animal studies.

Serious eye damage/irritation:	Feldspar (CAS No. 68476-25-5) has been classified for eye irritation (Category 2). Copper sulfate pentahydrate (CAS No.7758-99-8), zinc pyrithione (CAS No. 13463-41-7), and 1,2-benzisothiazolin-3-one (CAS No. 2634-33-5) have been classified for eye damage (Category 1). Product classification is not warranted for eye effects based on the concentration of the hazardous ingredients in the product, a review of available data, and the nature/physical form of the product (i.e., liquid glaze). The other ingredients >1% in the product are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	Cobalt (II) oxide (CAS No. 1308-06-1) has been classified for skin and respiratory sensitization (Category 1). Product classification is not warranted for these effects given the concentration of cobalt (II) oxide present in the product and the nature/physical form of the product (*i.e.*, liquid glaze). 1,2-Benzisothiazolin-3-one (CAS No. 2634-33-5) has been classified for skin sensitization (Category 1; C ≥ 0.036%). Product classification is not warranted for skin sensitization based on the concentration of 1,2-benzisothiazolin-3-one in the product. The other ingredients >0.1% in the product are not sensitizing to the skin or respiratory tract based on human and/or animal studies.
Mutagenicity:	The ingredients >0.1% in the product are not mutagenic based on human and/or animal studies.
Carcinogenicity:	Crystalline silica (CAS No. 14808-60-7) (airborne, unbound particles of respirable size) and cobalt (II) oxide (CAS No. 1308-06-1) have been classified for carcinogenicity (Category 1A). Crystalline silica (listed as silica dust, crystalline, in the form of quartz or cristobalite) is listed as Group 1 by IARC. Crystalline silica is also listed as a carcinogen by NTP and ACGIH. Product classification is not warranted for carcinogenicity based on a review of available data and the nature/physical form of the product (*i.e.,* liquid glaze). The other ingredients >0.1% in the product are not carcinogenic based on human and/or animal studies and with respect to the IARC, NTP, and ACGIH.
Reproductive Toxicity:	Zinc pyrithione (CAS No. 13463-41-7) has been classified for reproductive toxicity (Category 1B; may damage fertility or the unborn child). Product classification is not warranted for reproductive toxicity given the concentration of zinc pyrithione in the product. The other ingredients >0.1% in the product are not reproductive toxicants based on human and/or animal studies.
Specific target organ toxicity (single exposure):	Feldspar (CAS No. 68476-25-5) has been classified for specific target organ toxicity (single exposure, Category 3 - may cause respiratory irritation). Product classification is not warranted for this effect based on the nature/physical form of the product (*i.e.*, liquid glaze). Zinc oxide (CAS No. 1314-13-2), copper oxide (CAS No. 1317-38-0), and copper sulfate pentahydrate (CAS No.7758-99-8) may cause irritation to the gastrointestinal tract through oral exposure. This is not an officially recognized classification according to Regulation (EC) No 1272/2008 [CLP]. The other ingredients >1% in the product are not single exposure specific target organ toxicants based on human and/or animal studies.
Specific target organ toxicity (repeated exposure):	Crystalline silica (CAS No. 14808-60-7) has been classified for specific target organ toxicity (repeated exposure, Category 1 - causes damage to lungs through prolonged or repeated exposure). Product classification is not warranted for specific target organ toxicity based on a review of available data and the nature/physical form of the product (*i.e.,* liquid glaze). Zinc pyrithione (CAS No. 13463 41-7) has been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to organs through prolonged or repeated exposure). Product classification is not warranted for specific target organ toxicity given the concentration of the hazardous ingredients in the product. The other ingredients >1% in the product are not repeated exposure specific target organ toxicants based on human and/or animal studies.
Aspiration hazard:	The ingredients >1% in the product are not aspiration hazards based on human and/or animal studies.

References:

ECHA (European Chemicals Agency). 2026. REACH Registered Substances Database. https://chem.echa.europa.eu/

IARC (International Agency for Research on Cancer). 2025. Agents Classified by the IARC Monographs, Volumes 1–129. https://monographs.iarc.who.int/list-of-classifications/

NTP (National Toxicology Program). 2021. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. https://ntp.niehs.nih.gov/go/roc15

Section 12 – Ecological Information

12.1 Toxicity

- Environmental hazards are outside the scope of OSHA therefore product classification for chronic and/or acute aquatic toxicity is not mandatory. Based on the criteria outlined in the 11th revision of the GHS, product classification for acute and chronic aquatic toxicity (Category 1) is warranted.

Chemical Name	CAS No.	Species	Value
Zinc oxide	1314-13-2	*Raphidocelis subcapitata*	ERV (acute): pH 6.0: 308 µg Zn/L pH 8.0: 41 µg Zn/L ERV (chronic): pH 6.0: 118 µg Zn/L pH 8.0: 11 µg Zn/L
Copper oxide [a]	1317-38-0	*Oncorhynchus mykiss, Pimephales promelas, Lepomis macrochirus, Brachydanio rerioand, Cyprinus carpio*	L(E)C50 = 34.4 µg Cu/L
		Oncorhynchus mykiss, Pimephales promelas, Salvelinus fontanilis	NOEC= 14.9 µg Cu/L
Copper sulfate pentahydrate [b]	7758-99-8	*Lepomis macrochirus*	LC_{50} (96h): 0.66 - 1.15 mg/L (semi-static)
			LC_{50} (96h): 0.96 - 1.8 mg/L (static)
		Oncorhynchus mykiss	LC_{50} (96h):0.1478 - 0.165 mg/L (flow-through)
			LC_{50} (96h): 0.09 - 0.19 mg/L (static)
		Pimephales promelas	LC_{50} (96h): 0.6752 mg/L (static)
		Daphnia magna	EC_{50} (48h): 0.147 - 0.227 mg/L (static)
Cobalt (II) oxide	1308-06-1	*Oncorhynchus mykiss*	LC_{50}: 0.8mg Co/L
		Pimephales promelas	EC_{10}: 350 µg Co/L
		Ceriodaphnia dubia	LC_{50}: 0.386 mg Co/L
		Hyalella azteca	NOEC: 7.55 µg Co/L
1,2-Benzisothiazolin-3-one	2634-33-5	*Oncorynchus mykiss*	LC_{50} (96h): 2.15 mg/L
		Daphnia magna	EC_{50} (48h): 2.90 mg/L
		Raphidocelis subcapitata	EC_{50}: 0.108 mg/L
Zinc pyrithione [c]	13463-41-7	*Daphnia magna*	EC_{50} (48h): 8.2 µg/L
		Americamysis bahia	EC_{50} (96h): 6.3 µg/L
		Navicula pelliculosa	NOEC (120h): 2.4 µg/L ErC_{50} (120h): 4.1 µg/L EbC_{50} (120h): 3.0 µg/L
		Skeletonema costatum	EC_{50} (96h): 1.3 µg/L NOEC (96h): 0.46 µg/L

[a] According to Regulation (EC) No. 1272/2008 (CLP), M=100 for acute aquatic effects and M=10 for chronic aquatic effects.
[b] According to Regulation (EC) No. 1272/2008 (CLP), M=10 for acute aquatic effects.
[c] According to Regulation (EC) No. 1272/2008 (CLP), M=1000 for acute aquatic effects and M=10 for chronic aquatic effects.

12.2 Persistence and degradability

- Zinc oxide (CAS No. 1314-13-2), copper oxide (CAS No. 1317-38-0), copper sulfate pentahydrate (CAS No. 7758-99-8), and cobalt (II) oxide (CAS No. 1308-06-1) are metals/inorganic substances. Testing is not conducted for inorganic substances.
- 1,2-Benzisothiazolin-3-one (CAS No. 2634-33-5) is not considered to be readily biodegradable. On inherent biodegradability tests, 1,2-benzisothiazolin-3-one was also not considered inherently biodegradable. However, biodegradation of 1,2-benzisothiazolin-3-one was achieved when more favourable conditions were set in the inherent tests (ca. 40-50% was degraded).
- Zinc pyrithione (CAS No. 13463 41-7) is not readily biodegradable under the conditions of the OECD 301B CO_2 evolution test.

12.3 Bioaccumulative potential

- Copper is an essential nutrient for all living organisms. Copper ions are homeostatically controlled in all organisms, and the control efficiencies increase with trophic chain.
- 1,2-Benzisothiazolin-3-one (CAS No. 2634-33-5) has a log Kow value of 0.7 at 20ºC and pH 7. The BCF of 1,2-benzisothiazolin-3-on was determined to be 6.62 (BCF ≤ 3.0) which supports the conclusion of a negligible potential for bioaccumulation.
- Zinc pyrithione (CAS No. 13463 41-7) has a log Kow value of 0.9 at 25ºC and pH 7. The experimental BCF values for pyrithiones in two aquatic species are similar and range from 4.2 to 13.8 (BCF ≤ 3.0). This, combined with rapid degradation of pyrithione seen in natural aquatic systems, indicates that zinc pyrithione is unlikely to bioaccumulate in aquatic species, either directly or through the food chain.

12.4 Mobility in Soil

- Copper oxide oxide (CAS No. 1317-38-0) has a very low soil mobility [Kd= 2120 L/kg (log Kp (pm/w) = 3.33) (50th percentile)].
- 1,2-Benzisothiazolin-3-one (CAS No. 2634-33-5) has high soil mobility (mean log Koc value is 0.97).
- Zinc pyrithione (CAS No. 13463 41-7) is immobile in soil.

12.5 Results of PBT and vPvB assessment

- Copper oxide (CAS No. 1317-38-0) is a metal/inorganic substance. PBT and vPvB assessment does not apply.
- Copper sulfate pentahydrate (CAS No. 7758-99-8) is a metal/inorganic substance. PBT and vPvB assessment does not apply.
- 1,2-Benzisothiazolin-3-one (CAS No. 2634-33-5) is not considered PBT or vPvB.
- Zinc pyrithione (CAS No. 13463 41-7) is not considered PBT or vPvB.

12.6 Other adverse effects

- No further data available.

References:

ECHA (European Chemicals Agency). 2026. REACH Registered Substances Database. https://chem.echa.europa.eu/

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Preparing wastes for disposal: Use product for its intended purpose or recycle if possible. Dispose of waste in accordance with local, regional, national, and/or international regulations. The empty container has residues which may exhibit hazards of the product.

Contaminated Packaging: Container packaging is not expected to exhibit hazards.

Section 14 – Transport Information

Note: This product is classified as UN3082 Environmentally Hazardous Substance, N.O.S. (Zinc Oxide, Copper Oxide, Copper Sulfate Pentahydrate), 9, III. Due to its packaging size (5 L or less), the product is not considered dangerous for transport according to special provision 375 (ADR), provision 2.10.2.7 (IMDG), and special provision A197 (IATA). Substances when carried in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids are not subject to any other provisions of ADR provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Should the single or inner packaging condition or provisions not be met, transportation restrictions will need to be revisited.

Review classification requirements before shipping materials at elevated temperatures.

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es):	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

Special precautions for use: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Note: The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in **Section 3 – Composition / Information on Ingredients**.

United States

Federal Regulations:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): No ingredients in this product >0.1% are subject to reporting under CERCLA.

Clean Water Act (CWA): Zinc and compounds, 2,3,7,8 TCDD (CAS No. 1746-01-6) [listed as 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)], chromium and compounds, and cadmium and compounds are listed as toxic pollutants. No other ingredients in this product are listed as toxic pollutants.

Clean Air Act (CAA): No ingredients in this product are listed under the CAA.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA 302 Components: No ingredients in this product are subject to reporting requirements of S.302.

SARA 304 Emergency Release Notification: No ingredients in this product are subject to reporting requirements of S.304.

SARA 311/312 Hazards: None.

SARA 313 Components: Lithium carbonate (CAS No.554-13-2), aluminum oxide (fibrous forms) (CAS No. 1344-28-1), 2,3,7,8 TCDD (CAS No. 1746-01-6) [listed as 2,3,7,8-tetrachlorodibenzo-pdioxin (TCDD)], cadmium compounds, and cobalt compounds are subject to reporting requirements of S.313. No other ingredients in this product are subject to reporting requirements of S.313.

Toxic Substances Control Act (TSCA): All ingredients in this product are listed on the non-confidential TSCA inventory or are exempt.

State Regulations:
California Proposition 65 List: Crystalline silica (CAS No. 14808-60-7) [listed as silica, crystalline (airborne particles of respirable size)] and titanium dioxide (CAS No. 13463-67-7) (airborne particles of respirable size) are listed on the Proposition 65 List; however, given the nature/physical form of the product (*i.e.*, liquid glaze), airborne respirable particles would not likely be released from this product and therefore the listed forms of titanium dioxide and crystalline silica are not relevant for the product. 2,3,7,8 TCDD (CAS No. 1746-01-6) [listed as 2,3,7,8-tetrachlorodibenzo-pdioxin (TCDD)], methanol (CAS No. 67-56-1), arsenic [listed as arsenic (inorganic arsenic compounds)], cadmium (listed as cadmium/cadmium and cadmium compounds), chromium VI [listed as chromium (hexavalent compounds)], cobalt/cobalt (II, III) oxide [cobalt (II) oxide], lead (listed as lead/lead and lead compounds), mercury (listed as mercury and mercury compounds), and nickel (listed as nickel oxide) are listed on the California Proposition 65 List as chemicals known to the State of California to cause cancer and/or developmental/reproductive toxicity. Warnings for the purpose of California Proposition 65 for cobalt and nickel are not warranted given the nature/physical form of the products (*i.e.*, liquid glaze). Additionally, available information and/or a screening assessment indicates that the concentrations of 2,3,7,8 TCDD, methanol, arsenic, cadmium, chromium VI, cobalt, lead, and mercury in the product are not expected to be a cause for concern and warnings for the purpose of California Proposition 65 are not required. No other ingredients in this product are listed on the California Proposition 65.

New Jersey Right to Know Hazardous Substance List: Zinc oxide (CAS No. 1314-13-2), kaolin (CAS No. 1332-58-7), crystalline silica (CAS No. 14808-60-7) (listed as silica, quartz), titanium dioxide (CAS No. 13463-67-7), limestone (CAS No. 1317-65-3) (listed as calcium carbonate), diiron oxide (CAS No. 1309-37-1) (listed as iron oxide), manganese dioxide (CAS No. 1313-13-9) (listed as manganese compounds), chrome oxide (CAS No. 1308-38-9) (listed as chromic oxide), tin oxide (CAS No. 18282-10-5) [listed as tin (II) oxide], silicon carbide (CAS No. 409-21-2), lithium carbonate (CAS No. 554-13-2), 2,3,7,8 TCDD (listed as 2,3,7,8-tetrachlorodibenzo-p-dioxin) (CAS No. 1746-01-6), methanol (CAS No. 67-56-1), arsenic, cadmium, chromium, cobalt, lead, mercury, nickel are listed on the Right to Know Hazardous Substance List. No other ingredients are listed on the Right to Know Hazardous Substance List.

Canada
CEPA DSL/NDSL: All ingredients in the product are listed on the DSL, NDSL, or are exempt.

International:
IARC: Crystalline silica (CAS No. 14808-60-7) (listed as silica dust, crystalline, in the form of quartz or cristobalite), 2,3,7,8 TCDD (CAS No. 1746-01-6) (listed as 2,3,7,8-Tetrachlorodibenzo-para-dioxin), arsenic (listed as arsenic and inorganic arsenic compounds), cadmium (listed as cadmium and cadmium compounds), chromium [listed as chromium (VI) compounds], and nickel compounds are listed as Group 1, carcinogenic to humans. Talc (CAS No.14807-96-6) and silicon carbide (CAS No.409-21-2) (listed as silicon carbide whiskers) are listed as Group 2A, probably carcinogenic to humans. Titanium dioxide (CAS No. 13463-67-7), cobalt (II) oxide (CAS No. 1308-06-1), and lead are listed as Group 2B, possibly carcinogenic to humans. Diiron oxide (CAS No. 1309-37-1) (listed as ferric oxide), natural micaceous iron oxide (CAS No. 1317-60-8) (listed as haematite), mercury (listed as mercury and inorganic mercury compounds), and selenium sulfide (listed as selenium and selenium compounds, are listed as Group 3, unclassifiable as to carcinogenicity in humans. No other ingredients in this product are classified with respect to carcinogenicity.

Section 16 – Other Information

Consumer Information:

Mayco Colors is a member of the Art and Creative Materials Institute, Inc (ACMI), a US-based trade organization with a focus on art material safety. The ACMI Seal is a widely recognized certification program in the USA.

The product, STONEWARE GLAZES [SPECKLED TOAD (SW184), MICRO JADE (SW216),), MICRO CERULEAN (SW217), OLIVE FLOAT (SW151), EMERALD (SW210), RAINFOREST (SW185), BEETLEWING (SW228), MOOD RING (SW229), OLIVINE (SW127), ANTIQUE BRASS (SW182), MIRROR BLACK (SW132), BLUE OPAL (SW252), BLACK WALNUT (SW104), GREEN TEA (SW108), AURORA GREEN (SW146), SATIN PATINA (SW164), SAND & SEA (SW167), COPPER WASH (SW304), IVY (SW193), OXBLOOD (SW183), MICRO ASH (SW218), MICRO CHAMPAGNE (SW215), LIGHT FLUX (SW401), DARK FLUX (SW402), MICRO PEARL (SW214)], must be properly labeled for known health risk [*i.e.*, gastrointestinal irritation as a result of acute oral exposure] and should reflect the ACMI CL (Cautionary Labeling) Seal.

The CL Seal identifies products certified to be properly labeled for known health risks and with information on their safe use. The labeling information should be read and understood before using the product. Products with the CL Seal may be used by adult artists and students older than those in the 6th grade. These products are not intended for young children or any person who is unable to read and follow safety instructions.

Consumer Product Labeling According to US Labeling of Hazardous Art Materials Act, ASTM-4236

Colors: BLACK WALNUT (SW104), GREEN TEA (SW108), OLIVINE (SW127), ANTIQUE MIRROR BLACK (SW132), AURORA GREEN (SW146), OLIVE FLOAT (SW151), SATIN PATINA (SW164), SAND & SEA (SW167), ANTIQUE BRASS (SW182), OXBLOOD (SW183), SPECKLED TOAD (SW184), RAINFOREST (SW185), IVY (SW193), BEETLEWING (SW228), MOOD RING (SW229), COPPER WASH (SW304), IVY (SW193), MIRROR BLACK (SW132), EMERALD (SW210), BLUE OPAL (SW252),

WARNING: GASTROINTESTINAL IRRITANT. Contains Copper. Avoid ingestion. Wash hands immediately after use. Do not eat, drink, or smoke when using this product. KEEP OUT OF THE REACH OF CHILDREN. If swallowed, get medical attention. For further health information, contact a physician. Do not spray apply. Avoid dust.

Colors: MICRO PEARL (SW214), MICRO CHAMPAGNE (SW215), MICRO ASH (SW218), LIGHT FLUX (SW401), DARK FLUX (SW402)

WARNING: GASTROINTESTINAL IRRITANT. Contains Zinc. Avoid ingestion. Wash hands immediately after use. Do not eat, drink, or smoke when using this product. KEEP OUT OF THE REACH OF CHILDREN. If swallowed, get medical attention. For further health information, contact a physician. Do not spray apply. Avoid dust.

Colors: MICRO JADE (SW216), MICRO CERULEAN (SW217)

WARNING: GASTROINTESTINAL IRRITANT. Contains Zinc and Copper. Avoid ingestion. Wash hands immediately after use. Do not eat, drink, or smoke when using this product. KEEP OUT OF THE REACH OF CHILDREN. If swallowed, get medical attention. For further health information, contact a physician. Do not spray apply. Avoid dust.

Other ingredient information:
No latex, milk, eggs, fish, crustacean shellfish, tree nuts, peanuts, wheat, soybeans, sesame are in the formula

List of acronyms and abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists	log Kp: Soil–water partitioning coefficient
ACMI: Art and Creative Materials Institute	MARPOL: Maritime Pollution
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road	M-factor: Multiplying factor
ATE: Acute Toxicity Estimate	N/A: Not applicable
BCF: Bioconcentration factor	NDSL: Non-domestic Substances List
CAA: Clean Air Act	NIOSH: National Institute for Occupational Safety & Health
CAS: Chemical Abstract Service Number	NOEC: No Observed Effect Concentration
CERCLA: Comprehensive Environmental Response and Liability Act	NTP: National Toxicology Program
CFR: Code of Federal Regulations	OSHA: Occupational Safety and Health Administration
CL: Cautionary Labeling	PBT: Persistent, Bioaccumulative and Toxic
CWA: Clean Water Act	PEL: Permissible Exposure Level
DSL: Domestic Substances List	PPE: Personal Protective Equipment
EbC_{50}: the concentration of test substance which results in a 50% reduction in biomass growth	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
EC: European Commission	REL: Recommended exposure level
EC_{50}: Median effective concentration	SARA: Superfund Amendment and Reauthorization Act
ECHA: European Chemicals Agency	SCL: Specific Concentration Limit
ErC_{50}: the concentration of test substance which results in a 50% reduction in growth rate	SDS: Safety Data Sheet
ERV: Ecotoxicity Reference Value	STEL: Short-Term Exposure Limit
GHS: Global Harmonized System	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TSCA: Toxic Substances Control Act
IATA: International Air Transport Association	TWA: Time Weighted Average (8-hour)
IBC: International Bulk Chemical	UN: United Nations
IMDG: International Maritime Dangerous Goods	VOC: Volatile Organic Compounds
LC_{50}: Lethal Concentration 50%	vPvB: very Persistent, very Bioaccumulative
log Koc: Adsorption/desorption coefficient on soil	WHMIS: Workplace Hazardous Materials Information System
log Kow: Octanol/water partition coefficient	

References:

ECHA (European Chemicals Agency). 2026. REACH Registered Substances Database. https://chem.echa.europa.eu/

IARC (International Agency for Research on Cancer). 2025. Agents Classified by the IARC Monographs, Volumes 1–129. https://monographs.iarc.who.int/list-of-classifications/

NTP (National Toxicology Program). 2021. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. https://ntp.niehs.nih.gov/go/roc15

Disclaimer:
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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