



30588-XXXX

# STONEWARE GLAZES

## SAFETY DATA SHEET (SDS)

Version: 02

Date of Issue: October 31, 2023

According to: OSHA Hazard Communication Standard  
29 CFR 1910.1200(g) Rev. 2012

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

#### 1.1 Product identifier

Product Name:

STONEWARE GLAZES

Product Colors:

CLEAR (SW001), MATTE CLEAR (SW002), CRACKLE MATTE CLEAR (SW003), ZINC-FREE CLEAR (SW004), BLUE SURF (SW100), STONED DENIM (SW101), FROST BLUE (SW105), ALABASTER (SW106), DUNES (SW107), CAPRI BLUE (SW109), OYSTER (SW110), WROUGHT IRON (SW111), TIGER'S EYE (SW112), SPECKLED PLUM (SW113), MIDNIGHT RAIN (SW115), ROBIN'S EGG (SW116), HONEYCOMB (SW117), SEA SALT (SW118), CINNABAR (SW119), NORTHERN WOODS (SW120), SMOKE (SW121), MAYCOSHINO (SW122), SAPPHIRE (SW123), MATTE MAYCOSHINO (SW124), PURPLE MINT (SW125), CORDOVAN (SW128), COPPER FLOAT (SW129), COPPER JADE (SW130), BIRCH (SW131), COPPER ORE (SW133), EGGPLANT (SW134), WINTERGREEN (SW135), WEATHERED BLUE (SW136), STORM GRAY (SW137), LEMON MERINGUE (SW138), BLACK MATTE (SW140), WHITE MATTE (SW141), GRAY MATTE (SW142), ABALONE (SW143), LAVA ROCK (SW144), TEA DUST (SW145), MOONSCAPE (SW147), LIME SHOWER (SW148), CRACKLE WHITE (SW149), CELADON BLOOM (SW150), BLUE SPLATTERWARE (SW152), INGIDO RAIN (SW153), SHIPWRECK (SW154), WINTER WOOD (SW155), GALAXY (SW156), LILAC MATTE (SW158), BLUE MATTE (SW159), CHARTREUSE MATTE (SW160), YELLOW MATTE (SW161), PINK MATTE (SW162), SOFT RED MATTE (SW163), LAVENDER MIST (SW165), NORSE BLUE (SW166), CORAL SANDS (SW168), FROSTED LEMON (SW169), BLUE HYDRANGEA (SW170), ENCHANTED FOREST (SW171), MACADEMIA (SW172), AMBER QUARTZ (SW173), LEATHER (SW174), RUSTED IRON (SW175), SANDSTONE (SW176), RASPBERRY MIST (SW177), FOOL'S GOLD (SW178), TURQUOISE (SW201), ROOTBEER (SW203), AMBER TOPAZ (SW204), CORAL (SW205), MELON (SW206), CHAMBRAY (SW207), CHARCOL (SW209), GLACIER BLUE (SW211), PEACOCK (SW212), WHITE OPAL (SW250), PINK OPAL (SW251), GREEN OPAL (SW253), GRAY OPAL (SW255), IRON WASH (SW301), RUTILE WASH (SW302), MANGANESE WASH (SW303), COBALT WASH (SW305), WHITE MUDCRACK (SW403), BLACK MUDCRACK (SW404), LIGHT MAGMA (SW405), DARK MAGMA (SW406), WHITE GLOSS (SW501), YELLOW GLOSS (SW502), ORANGE GLOSS (SW503), RED GLOSS (SW504), PURPLE GLOSS (SW505), BRIGHT BLUE GLOSS (SW506), BRIGHT GREEN GLOSS (SW507), BLACK GLOSS (SW508), AZURITE (SW186), HIMALAYAN SALT (SW187), LANDSLIDE (SW188), CENOTE (SW189), MUDDY WATERS (SW179), DESERT DUSK (SW180), NIGHT MOTH (SW181), DARK GREEN GLOSS (SW509), BLUE GLOSS (SW510), PASSION FLOWER (SW190), PEPPERED PLUM (SW191), AMARYLLIS (SW192), NIMBUS (SW194), RIPTIDE (SW195), SAND DOLLAR (SW196), FOSSIL ROCK (SW197), ROSE QUARTZ (SW198), PINK GLOSS (SW511), CORAL GLOSS (SW512), BROWN GLOSS (SW513)

Product sizes:

4 fl. oz., 16 fl. oz. (1 pint), 128 fl. oz. (1 gallon)

Other Means of Identification:

None known

Product Description:

Liquid formulations intended to be used for arts and crafts purposes.

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

Relevant identified use(s): Use product for its intended purpose as a glaze product intended for arts and crafts purposes. This product is intended for small batch use.

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

Manufacturer/Supplier: Mayco Colors  
4077 Weaver Court South  
Hilliard, OH 43026  
Business Phone: 614-675-1171  
Email: info@maycocolors.com

**1.4 Emergency telephone number**

Emergency Telephone: Contact the local poison control centre.

**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. 2012

Health	Environmental <sup>a</sup>	Physical
Not classified	H401: Hazardous to the aquatic environment - short term (acute) hazard (Category 2)  H413: Hazardous to the aquatic environment - long term (chronic) hazard (Category 4)	Not classified

<sup>a</sup> Environmental hazards are outside the scope of OSHA; therefore, product classification for acute aquatic toxicity (Category 2) and chronic aquatic toxicity (Category 4) is not mandatory.

**2.2. Label elements**

**Label Pictogram:** None required.

**Signal Word:** None required.

**Hazard statements & Precautions:**

**Acute aquatic toxicity  
(Category 2) (H401)**

**Chronic aquatic toxicity  
(Category 4) (H413)**

**May cause long lasting harmful effects to aquatic life**

**P273:** Avoid release to the environment.

**P501:** Dispose of contents/container in accordance with local, regional, national, and/or international regulation.

**Supplemental Hazard Information:** None

**2.3. Other hazards**

- No other hazards have been identified for this product.

## Section 3 – Composition / Information on Ingredients

## 3.1 Substances

The product is a mixture and not a substance.

## 3.2 Mixture

Chemical Name	CAS No.	EC No.	% Concentration <sup>a</sup>	GHS Hazards
Quartz (crystalline silica)	14808-60-7	238-878-4	up to 31.9813%	H350: Carcinogenicity (Category 1) (Inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1, lungs)
Cobalt (II, III) oxide	1308-06-1	215-157-2	up to 14.79354%	H334: Respiratory sensitization (Category 1B); H412: Hazardous to the aquatic environment – long term (chronic) hazard (Category 3)
Titanium dioxide	13463-67-7	236-675-5	up to 0.2798%	H351: Carcinogenicity (Category 2) (Inhalation)
Zinc oxide	1314-13-2	215-222-5	up to 6.8947%	H371: Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract); H400: Hazardous to the aquatic environment – short term (acute) hazard (Category 1); H410: Hazardous to the aquatic environment – long term (chronic) hazard (Category 1)
Manganese dioxide	1313-13-9	215-202-6	up to 24.4881%	H302: Acute toxicity - oral (Category 4); H332: Acute toxicity - inhalation (Category 4)
Lithium carbonate	554-13-2	209-062-5	up to 2.7752%	H302: Acute toxicity - oral (Category 4); H319: Eye irritation (Category 2)
Boron oxide <sup>b</sup>	1303-86-2	215-125-8	up to 0.7602%	H360FD: Reproductive toxicity (Category 1B; may damage fertility or the unborn child)
Feldspar	68476-25-5	270-666-7	up to 23.0121%	H335: Specific target organ toxicity (single exposure, Category 3, respiratory irritation); H319: Eye Irritation (Category 2)
Trisodium hexafluoroaluminate	13775-53-6	237-410-6	up to 7.4272%	H332: Acute toxicity - inhalation (Category 4); H372: Specific target organ toxicity (repeated exposure, Category 1, lungs); H411: Hazardous to the aquatic environment – long term (chronic) hazard (Category 2)
Zinc pyrrhione	13463-41-7	236-671-3	up to 0.0078%	H301: Acute toxicity - oral (Category 3); H318: Eye damage (Category 1); H330: Acute toxicity – inhalation (Category 2); H372: Specific target organ toxicity (repeated exposure, Category 1); H360D: Reproductive toxicity (Category 1B) (May damage the unborn child) H401: Acute aquatic toxicity (Category 1); H411: Chronic aquatic toxicity (Category 1)

<sup>a</sup> Concentrations are calculated as a maximum across all products, rather than by color.

<sup>b</sup> The hazardous boron listed as part of this product is completely incorporated into the glassy structure of the frit, chemically reacted in the form of silicates or other essentially insoluble complexes. Exposure to the hazardous ingredient can occur if the ingredients dissolve out of the glass. Because of the chemical stability of frits and its resistance to attack by acids or alkali, this is anticipated to occur very slowly. To date, there is no significant evidence of adverse effects from industrial exposures.

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.

It should be noted that the product may contain quartz (CAS No.14808-60-7) and titanium dioxide (CAS No. 13463-67-7) 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.

Assessment of this product was based on the assumption 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. Seek medical attention if in doubt.

**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: Seek medical attention if in doubt.

**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:** No specific first aid measures are required. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if in doubt.

### 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, water spray, 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 vapours or fumes may form if product is involved in fire:
- See also **Section 10 - Stability and Reactivity.**

### 5.3 Advice for firefighters

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

## Section 6 – Accidental Release Measures

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

**Personal Precautions:** Ventilate area if spilled in confined space or other poorly ventilated areas. Observe PPE advice in **Section 8 – Exposure Controls/Personal Protection.**

**Emergency Procedures:** Evacuate personnel to safe areas.

### 6.2 Environmental precautions

- Prevent entry and contact with soil, drains, sewers, and waterways. 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. 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

- Wash hands thoroughly after handling.
- 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 vapours were considered to be foreseeable under conditions of normal use. Airborne particles, such as dust, are not foreseeable under conditions of normal use.

Chemical Name	CAS No.	ACGIH TLVs TWA	OSHA PELs TWA	NIOSH RELs TWA	DFG MAK TWA
Quartz (crystalline silica)	14808-60-7	0.025 mg/m <sup>3</sup> <b>R</b>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	N/A
Titanium dioxide	13463-67-7	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> <sup>a</sup>	N/A	0.3 mg/m <sup>3</sup> <sup>b</sup> <b>R</b>
Boron oxide	1303-86-2	10 mg/m <sup>3</sup> <sup>a</sup>	15 mg/m <sup>3</sup> <sup>a</sup>	10 mg/m <sup>3</sup> <sup>a</sup>	N/A
Zinc oxide	1314-13-2	2 mg/m <sup>3</sup> <b>R</b>	15 mg/m <sup>3</sup> <sup>a</sup> 5 mg/m <sup>3</sup> <sup>b</sup>	5 mg/m <sup>3</sup> (dust only)	0.1 mg/m <sup>3</sup> <b>R</b>
<sup>a</sup> Total <sup>b</sup> Respirable			<b>R</b> N/A	Measured as respirable fraction of the aerosol Not applicable	

### 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:** Consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

#### Respiratory:

Under normal conditions of use, a respirator is not usually required. Use appropriate respiratory protection when handling to minimize exposure to vapours. 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. An eyewash bottle or station should be available in the workplace. Wear a face shield if splash or spray is likely.

<b>Hands:</b>	Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.
<b>Body/Skin:</b>	Wear chemically impervious gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.
<b>Thermal Hazards:</b>	None known
<b>Environmental Exposure Controls:</b>	Not available
<b>Hygiene measures:</b>	Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

## 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.

<b>Appearance:</b> <b>Physical state:</b> <b>Color:</b> <b>Odor:</b>	Liquid <b>See section 1.1</b> None	<b>Partition Coefficient n-octanol/water:</b> <b>Auto-ignition temperature:</b>	Not available Not available
<b>pH (as supplied):</b>	8 - 9	<b>Decomposition temperature:</b>	Not available
<b>Freezing point:</b>	32°F	<b>Dynamic viscosity:</b>	Not available
<b>Boiling point:</b>	100°F	<b>Molecular weight:</b>	Not available
<b>Flash point:</b>	Not available	<b>Taste:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Explosive properties:</b>	Not available
<b>Flammability:</b>	Not available	<b>Oxidizing properties:</b>	Not available
<b>Upper/lower explosive limits:</b>	Not available	<b>Surface tension:</b>	Not available
<b>Vapor pressure:</b>	Not available	<b>Volatile component:</b>	Not available
<b>Water solubility:</b>	Not available	<b>Gas group:</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available	<b>pH (as solution):</b>	Not available
<b>Specific gravity (Water = 1):</b>	Not available	<b>VOC:</b>	Not available
<b>Relative density:</b>	Not available	<b>Particle size range:</b>	Not available

### 9.2 Other information

- No 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

- Exposure to high temperatures
- Strong acids
- Strong bases
- Strong oxidisers

**10.5 Incompatible materials**

- Strong acids
- Strong bases
- Strong reducing agents
- Strong oxidizing 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, burning, or decomposition of dry solids.

**Section 11 – Toxicological Information****11.1. Information on hazard classes:**

**Likely routes of exposure:** Skin/eye contact, inhalation of vapours.

**Potential signs and symptoms:**

<b>Acute oral toxicity:</b>	Manganese dioxide (CAS No. 1313-13-9) and lithium carbonate (CAS No. 554-13-2) have been classified for acute oral toxicity (Category 4) and zinc pyrithione (CAS No. 13463-41-7) has been classified for acute oral toxicity (Category 3); however, the product is practically nontoxic based on available animal and human use data. The oral ATE for the whole product is >2000 mg/kg.
<b>Acute dermal toxicity:</b>	The product is practically non-toxic based on available animal and human use data. The dermal ATE for the whole product is >5000 mg/kg.
<b>Acute inhalation toxicity:</b>	Manganese dioxide (CAS No. 1313-13-9) and trisodium hexafluoroaluminate (CAS No. 13775-53-6) have been classified for acute inhalation toxicity (Category 4) and zinc pyrithione (CAS No. 13463 41-7) has been classified for acute inhalation toxicity (Category 2); however, the product is practically non-toxic based on available animal and human use data. The inhalation ATE for the whole product is >5 mg/L.
<b>Skin corrosion/irritation:</b>	The ingredients in this product >1% are not corrosive to the skin or skin irritants based on human and/or animal studies.
<b>Serious eye damage/irritation:</b>	Feldspar (CAS No. 68476-25-5) and lithium carbonate (CAS No. 554-13-2) have been classified for eye irritation (Category 2). Product classification is not warranted for eye irritation based on a review of available data. The other ingredients in this product >1% are not damaging to the eyes or eye irritants based on human and/or animal studies.
<b>Respiratory or skin sensitization:</b>	Cobalt (II, III) oxide (CAS No. 1308-06-1) has been classified for respiratory sensitization (Category 1B). Product classification is not warranted for respiratory sensitization based on a review of the available data and the form of cobalt present in the product ( <i>i.e.</i> , cobalt is bound to a matrix/complex which reduces the availability of cobalt in the body). The other ingredients in this product >0.1% are not sensitizing to the skin or respiratory system based on human and/or animal studies.
<b>Mutagenicity:</b>	The ingredients in this product >0.1% are not mutagenic based on animal studies or no data identified for the components in this product.

**Carcinogenicity:**

Quartz (crystalline silica) (airborne, unbound particles of respirable size) (CAS No. 14808-60-7) has been classified for carcinogenicity (Category 1). Quartz (crystalline silica) [listed as silica dust, crystalline, in the form of quartz or cristobalite (CAS No. 14808-60-7)] is listed as a carcinogen by IARC, NTP and ACGIH. Titanium dioxide (airborne, unbound particles of respirable size) (CAS No. 13463-67-7) has been classified for carcinogenicity (Category 2). Titanium dioxide (airborne, unbound particles of respirable size) (CAS No. 13463-67-7) is listed as a carcinogen by IARC and ACGIH. Product classification is not warranted for carcinogenicity based on nature of the product (*i.e.*, liquid glaze). The other ingredients in the product >0.1% are not carcinogenic based on animal studies or no data identified for the components in this product.

**Reproductive Toxicity:**

Boron oxide (CAS No. 1303-86-2) has been classified for reproductive toxicity (Category 1B; may damage fertility or the unborn child). Product classification is not warranted given that the hazardous boron is completely incorporated into the glassy structure of the frit (chemically reacted in the form of silicates or other essentially insoluble complexes). 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 this effect given the concentration of zinc pyrithione in the product. The other ingredients in this product >0.1% are not reproductive toxicants based on animal studies, or no data identified for the components in this product.

**Specific target organ toxicity (single exposure):**

Zinc oxide (CAS No. 1314-13-2) has been classified for specific target organ toxicity (single exposure, Category 2; may cause irritation to the gastrointestinal tract through oral exposure). Product classification is not warranted for gastrointestinal irritation given the concentration of zinc oxide in the product. 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 a review of available data and the nature of the product (*i.e.*, liquid glaze). The other ingredients in this product >1% are not single exposure specific target organ toxicity (single exposure) hazards based on animal studies or no data identified for the components in this product.

**Specific target organ toxicity (repeated exposure):**

Quartz (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 *via* inhalation). Product classification is not warranted for this effect given the nature of the product (*i.e.*, liquid glaze). Zinc pyrithione (CAS No. 13463 41-7) and trisodium hexafluoroaluminate (CAS No. 13775-53-6) have 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 this effect given the concentration of zinc pyrithione in the product. The other ingredients in this product >1% are not repeated exposure specific target organ toxicity hazards based on available information, human and/or animal studies.

**Aspiration hazard:**

The ingredients in this product >1% are not aspiration hazards based on animal studies or no data identified for the components in this product.

**References:**

ECHA (European Chemicals Agency). 2023. REACH Registered Substances Database. <https://echa.europa.eu/search-for-chemicals>  
 IARC (International Agency for Research on Cancer). 2023. 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>  
 Official Journal of the European Union. 2008. Regulation (EC) No 1272/2008. <http://data.europa.eu/eli/reg/2008/1272/2022-03-01>

## Section 12 – Ecological Information

## 12.1 Toxicity

- Environmental hazards are outside the scope of OSHA. Based on the criteria outlined in the 10th revision of the GHS, the product is classified for acute aquatic toxicity (Category 2) and chronic aquatic toxicity (Category 4).

Chemical Name	CAS No.	Species	Result
Zinc oxide	1314-13-2	<i>Danio rerio</i>	LC <sub>50</sub> (96h): 1.793 mg/L (bulk ZnO) nominal EC <sub>50</sub> (84h): 2.066 mg/L (bulk ZnO) nominal
		<i>Danio rerio</i>	NOEC (32d): ≥540 µg/L nominal
		<i>Daphnia magna</i>	EC <sub>50</sub> (48h): >1.4 - <2.5 mg/L nominal
		<i>Daphnia magna</i>	EC <sub>10</sub> (21d): 127 µg/L nominal EC <sub>10</sub> (21d): 195 µg/L nominal
Cobalt (II, III) oxide	1308-06-1	<i>Oncorhynchus mykiss</i>	LC <sub>50</sub> = 0.8 mg Co/L
		<i>Danio rerio</i>	LC <sub>50</sub> = 85 mg Co/L
		<i>Cladoceran</i>	LC <sub>50</sub> = 0.61 mg Co/L
		<i>Lemna minor</i>	EC <sub>50</sub> = 52 µg/L
Zinc pyrithione	13463-41-7	Pimephales promelas	LC <sub>50</sub> (96h): 0.0026 mg/L NOEC (96h): 0.011 mg/L
		<i>Daphnia magna</i>	LC <sub>50</sub> (48h): 0.0082 mg/L NOEC (48h): 0.011 mg/L
		<i>Selenastrum capricornutum</i>	EC <sub>50</sub> (120h): 0.028mg/L NOEC (120h): 0.0078 mg/L
Hexafluoroaluminate trisodique	13775-53-6	<i>Brachydanio rerio</i>	LC <sub>50</sub> (96h): 99 mg/L
		<i>Daphnia magna</i>	EC <sub>50</sub> (48h): 156 mg/L
		<i>Pseudokirchneriella subcapitata</i>	ErC <sub>50</sub> (72h): 8.8 mg/L

## 12.2 Persistence and degradability

- No data available for the product.

## 12.3 Bioaccumulative potential

- Cobalt (II, III) oxide (CAS No. 1308-06-1) has a bioconcentration factor of 180 – 4000.

## 12.4 Mobility in Soil

- No data available for the product.

## 12.5 Results of PBT and vPvB assessment

- No data available for the product.

## 12.6 Endocrine disrupting properties

- No data available for the product.

## 12.7 Other adverse effects

- No further data available.

## References:

ECHA (European Chemicals Agency). 2023. REACH Registered Substances Database.  
<https://echa.europa.eu/search-for-chemicals>

## 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 may exhibit hazards.

## Section 14 – Transport Information

Note: This product is not regulated as dangerous goods for transport.

<b>14.1 UN number</b>	Not applicable
<b>14.2 UN proper shipping name</b>	Not applicable
<b>14.3 Transport hazard class(es):</b>	Not applicable
<b>14.4 Packing group</b>	Not applicable
<b>14.5 Environmental hazards</b>	None
<b>14.6 Special precautions for user</b>	None
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable

## 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):**

The ingredients in this product >0.1% are not subject to reporting under CERCLA.

**Clean Water Act (CWA):** The ingredients in this product are not listed as toxic pollutants.

**Clean Air Act (CAA):** The ingredients in this product are not listed under the CAA.

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

**SARA 302 Components:** The ingredients in this product are not subject to reporting requirements of S.302.

**SARA 304 Emergency Release Notification:** None.

**SARA 311/312 Hazards:** None.

**SARA 313 Components:** Copper compounds and aluminum oxide (CAS No. 1344-28-1) are subject to reporting requirements of S.313. The other ingredients in this product are not subject to reporting requirements of S.313.

**Toxic Substances Control Act (TSCA):** Bentonite (CAS No. 1302-78-9) is not listed on the TSCA. The other ingredients are listed on the non-confidential TSCA inventory or are exempt.

##### **State Regulations:**

**California:** Quartz (crystalline silica) [(listed as silica, crystalline (airborne particles of respirable size)] and titanium dioxide (airborne, unbound particles of respirable size) are listed on the California Proposition 65 List, as chemicals known to the State of California to cause cancer. 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 form of silica, crystalline and titanium dioxide is not relevant for the product. Cobalt is listed on the California Proposition 65 List as a chemical known to the State of California to cause cancer; however, a screening assessment indicates that the concentration of cobalt in the product is not expected to be a cause for concern and require warnings for the purpose of California Proposition 65. The other ingredients in this product are not listed.

**International:**

**IARC:** Quartz (crystalline silica) (CAS No. 14808-60-7) is listed in Group 1, carcinogenic to humans. Titanium dioxide (CAS No. 13463-67-7) is listed in Group 2B, possibly carcinogenic to humans. Cobalt oxide (CAS No. 1308-06-1) (listed as cobalt (II, III) oxide), is classified as Group 3, not classifiable as to its carcinogenicity to humans. The other ingredients of this product are not classified with respect to carcinogenicity.

**15.2 Chemical Safety Assessment**

- None available for the components in this product.

**Section 16 – Other Information**

An **AP (Approved Product)** label is appropriate for this product. The product, STONEWARE GLAZES (colors listed in Section 1.1), is safe and is certified to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.

**List of acronyms and abbreviations:**

ACGIH: American Conference of Governmental Industrial Hygienists	OSHA: Occupational Safety and Health Administration
ATE: Acute Toxicity Estimate	PBT: Persistent, Bioaccumulative and Toxic
CAA: Clean Air Act	PEL: Permissible Exposure Level
CAS: Chemical Abstract Service Number	PPE: Personal Protective Equipment
CERCLA: Comprehensive Environmental Response and Liability Act	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
CWA: Clean Water Act	REL: Recommended exposure level
DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatzkonzentration	SARA: Superfund Amendment and Reauthorization Act
EC: European Commission	SDS: Safety Data Sheet
ECHA: European Chemicals Agency	TLV: Threshold limit value
GHS: Global Harmonized System	TSCA: Toxic Substances Control Act
IARC: International Agency for Research on Cancer	TWA: Time-weighted average
IMO: International Maritime Organization	UN: United Nations
N/A: Not applicable	VOC: Volatile Organic Compound
NIOSH: National Institute for Occupational Safety & Health	vPvB: very Persistent, very Bioaccumulative
NTP: National Toxicology Program	

**References:**

ECHA (European Chemicals Agency). 2023. REACH Registered Substances Database. <https://echa.europa.eu/search-for-chemicals>  
 IARC (International Agency for Research on Cancer). 2023. 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>  
 Official Journal of the European Union. 2008. Regulation (EC) No 1272/2008. <http://data.europa.eu/eli/reg/2008/1272/2022-03-01>

**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.

**Revision Indicator:** This is a 1<sup>st</sup> revision Safety Data Sheet.

**Creation Date:** April 27, 2021

**Revision Date:** October 31, 2023