

STONEWARE GLAZES

SAFETY DATA SHEET (SDS)

Version: 01

Date of Issue: April 27, 2021

According to: OSHA Hazard Communication Standard 29
CFR 1910.1200(g) Rev. 2012; WHMIS 2015
(Hazardous Products Regulations)

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

1.1 Product identifier

Product Name: Stoneware Glazes
BLACK WALNUT (SW104), GREEN TEA (SW108), OLIVINE (SW127), MIRROR BLACK (SW132),
AURORA GREEN (SW146), OLIVE FLOAT (SW151), SATIN PATINA (SW164), SAND & SEA
(SW167), EMERALD (SW210), BLUE OPAL (SW252), COPPER WASH (SW304), RAINFOREST
(SW185), LIGHT FLUX (SW401), DARK FLUX (SW402), ANTIQUE BRASS (SW182), OXBLOOD
(SW183), SPECKLED TOAD (SW184)

Product Description: Liquid formulations (various sizes: 4oz, 1 pint, 1 gal) intended to be used for arts and crafts purposes.

1.2 Relevant identified uses of the substance or mixture

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: Coloramics LLC.
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: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Health	Environmental	Physical
Mucus Membrane Irritation (Category 2)	Not classified	Not classified

2.2. Label elements

Signal Word: Warning

Hazard statements & Precautions:

**Mucus Membrane Irritation
(Category 2)**

May irritate gastrointestinal tract.

Wash hands thoroughly after handling. (P264)

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

IF ON SKIN: wash with plenty of water. (P302+P352)
 Specific treatment: see a medical professional. (P321)
 IF GASTROINTESTINAL irritation occurs: Get medical advice/attention.
 (P332+P313)
 Take off contaminated clothing. (P362)
 Do not induce vomiting. (P331)
 If swallowed, call a Poison Control Centre or doctor immediately (P301+P310).

2.3. Other hazards

- Mechanical irritation of the eyes and respiratory system may occur following exposure dusts, mists or spray.

Section 3 – Composition / Information on Ingredients^a

Mixture

<u>Chemical Name</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>% Weight</u>
Quartz (crystalline silica) ^b	14808-60-7	238-878-4	up to 27.28554%
Cupric oxide ^b	1317-38-0	215-269-1	up to 3.73133%
Cobalt oxide advanced grade ^b	1307-96-6	215-154-6	up to 1.83898%
Cobalt oxide ^b	1308-06-1	215-157-2	up to 6.00000%
Titanium dioxide ^b	13463-67-7	236-675-5	up to 0.91380%
Zinc oxide ^b	1314-13-2	215-222-5	up to 3.80000%
Manganese dioxide (MnO ₂) ^b	1313-13-9	215-202-6	up to 21.19%

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

^b Concentrations are calculated as a maximum across all colors, rather than by color.

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: IF ON SKIN: wash with plenty of water. If skin irritation or rash occurs get medical attention. Launder contaminated clothing before reuse.

Inhalation: No specific first aid measures are required. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Ingestion: IF GASTROINTESTINAL irritation occurs: Get medical advice/attention. 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

Unusual Fire and Explosion Hazards: Container may rupture on heating. See also **Section 10** - Stability and Reactivity.

5.3 Advice for firefighters

- Wear a self-contained breathing apparatus.

Section 6 – Accidental Release Measures

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

Personal Precautions: Avoid dust formation. 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. Use an inert material to collect spilled product. Keep wet. 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

- Avoid contact with skin and eyes. Avoid generation of dust, mist or spray. Provide adequate ventilation. Observe good industrial hygiene practices. When using do not eat, drink or smoke. Wear appropriate personal protective equipment. Keep containers closed and locked away in a well-ventilated space when not in use. Wash thoroughly after handling. Launder contaminated clothing before reuse.
- Refer to **Section 8** - Exposure Controls/Personal Protection

7.2 Conditions for safe storage, including any incompatibilities

- Keep from freezing. Do not store in open, unlabeled or mislabeled containers. Keep container tightly closed and dry. Store away from incompatible materials. See **Section 10** for incompatible materials.

7.3 Specific end use(s)

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

8.1 Control Parameters:

Occupational exposure limits:

Chemical Name	CAS No.	ACGIH TLVs TWA (mg/m³)	OSHA PELs TWA (mg/m³)	NIOSH RELs TWA (mg/m³)	DFG MAK TWA (mg/m³)
Quartz (crystalline silica)	14808-60-7	0.025	0.05	0.05	Not applicable
Cuperic oxide	1317-38-0	Not applicable	Not applicable	Not applicable	0.01
Cobalt (II, III) oxide (cobalt and inorganic compounds, as Co)	1307-96-6 / 1308-06-1	0.02	0.1	0.05	Not applicable
Titanium dioxide	13463-67-7	10	15	Not applicable	Not applicable
Zinc oxide	1314-13-2	2	15 (total dust) 5 (respirable fraction)	5 (dust only)	0.1 (respirable)
Manganese dioxide (MnO ₂) (inorganic compounds, as Mn)	1313-13-9	0.02	Not applicable	1	0.2

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. In case of dust, mist or spray formation use a respirator with an approved filter.

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:** Use appropriate respiratory protection when handling to minimize exposure to dust, spray or mist. 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.
- Hands:** Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.
- Body/Skin:** 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.
- Thermal Hazards:** None known.
- Environmental Exposure Controls:** Not available.
- Hygiene measures:** 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.

Appearance: Physical state: Form: Color: Odor:	Liquid Liquid See section 1.1 Not available	Partition Coefficient n-octanol/water: Auto-ignition temperature:	Not available Not available
Odor threshold:	Not available	Decomposition temperature:	Not available
pH (as supplied):	8	Dynamic viscosity:	Not available
Freezing point:	Not available	Molecular weight:	Not available
Boiling point:	Not available	Taste:	Not available
Flash point:	Not available	Explosive properties:	Not available
Evaporation rate:	Not available	Oxidizing properties:	Not available
Flammability:	Not available	Surface tension:	Not available
Upper/lower explosive limits:	Not available	Gas group:	Not available
Vapor pressure:	Not available	pH (as solution):	Not available
Water solubility:	Not available	VOC:	Not available
Solubility (other):	Not available	Particle size range:	Not available
Vapor density (Air = 1):	Not available	Specific gravity (Water = 1):	Not available
Relative density:	Not available		

9.2 Other information

- No data available

Section 10 – Stability and Reactivity

10.1 Reactivity

- No data available

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

- None known

10.4 Conditions to avoid

- Keep away from heat, sparks, flame and other ignition sources.

10.5 Incompatible materials

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

Section 11 – Toxicological Information

Likely routes of exposure: Skin/eye contact.

Potential signs and symptoms:

Acute oral toxicity:	Manganese dioxide (MnO ₂) (CAS No. 1313-13-9) has been classified for acute oral toxicity (Category 4). The product is practically nontoxic based on available data. The oral acute toxicity estimate (ATE) for the whole product is >2000 mg/kg.
Acute dermal toxicity:	The product is practically non-toxic based on available data.
Acute inhalation toxicity:	Manganese dioxide (MnO ₂) (CAS No. 1313-13-9) has been classified for acute inhalation toxicity (Category 4). However, the product is practically non-toxic based on available data.
Skin corrosion/irritation:	The components in this product are not irritating to the skin based on animal studies and available data. Wash thoroughly if on skin.
Serious eye damage/irritation:	The components in this product are not irritating to the eyes based on animal studies and available data.
Respiratory or skin sensitization:	Cobalt oxide advanced grade (CAS No.1307-96-6), and cobalt oxide (CAS No. 1308-06-1), have been classified for respiratory sensitization. No other components in this product are sensitizing to the skin or respiratory system based on available data.
Mutagenicity:	The components of this product are not classified with respect to mutagenicity by the IARC, NTP, and ACGIH.
Carcinogenicity:	Quartz (crystalline silica) (CAS No. 14808-60-7) is listed in Group 1 by IARC. Quartz (crystalline silica) is listed as a carcinogen by NTP and ACGIH. Titanium dioxide (CAS No. 13463-67-7) is listed in Group 2B by IARC. No other components are classified with respect to carcinogenicity by the IARC, NTP, and ACGIH.
Reproductive Toxicity:	The components in this product are not reproductive hazards based on available information, human and/or animal studies.
Specific target organ toxicity (single exposure):	Cupric oxide (CAS No. 1317-38-0) and zinc oxide (CAS No. 1314-13-2) have been associated with mucus membrane irritation. The other components in this product are not single exposure specific target organ toxicity hazards based on available information, human and/or animal studies.
Specific target organ toxicity (repeated exposure):	Quartz (crystalline silica) (CAS No. 14808-60-7) has been classified as repeated exposure specific target organ toxicity hazards. The other components in this product are not repeated exposure specific target organ toxicity hazards based on available information, human and/or animal studies.
Aspiration hazard:	The components of this product are not aspiration hazards based on available information, human and/or animal studies.

References:

ECHA. 2021. REACH Registered Substances Database.
International Agency for Research on Cancer

Section 12 – Ecological Information

12.1 Toxicity

Chemical Name	CAS No.	Species	Result
Cobalt oxide advanced grade	1307-96-6	Oncorhynchus mykiss	LC ₅₀ = 1.5 Co/L
		Ceriodaphnia dubia	EC ₅₀ = 0.61 mg/L
		Lemna minor	EC ₅₀ = 52 ug/L
Zinc oxide	1314-13-2	Oncorhynchus Mykiss	LC ₅₀ =0.169 mg/L
		Ceriodaphnia dubia	EC ₅₀ =0.147 mg Zn/L (geomean value) at neutral/high pH and low hardness
		Pseudokirchneriella subcapitata	LC ₅₀ =0.042 mg Zn/L
Cobalt oxide	1308-06-1	Oncorhynchus mykiss (rainbow trout)	LC ₅₀ = 1.51 mg/L (96-hour)
		Cladoceran (water flea)	LC ₅₀ = 0.61 mg/L
		Lemna minor (duckweed)	EC ₅₀ = 0.1985 mg/L (7 days)

12.2 Persistence and degradability

- No product data available.

12.3 Bioaccumulative potential

- Cobalt oxide advanced grade (CAS No. 1307-96-6) is not considered to biomagnify.
- Cobalt (II, III) oxide (CAS No. 1308-06-1) has a bioconcentration factor of 180 – 4000.
- Cupric oxide (CAS No. 1317-38-0) has no potential for bioaccumulation.

12.4 Mobility in Soil

- No data available
- Cupric oxide (CAS No. 1317-38-0) has a K_d soil: 2120 L/kg

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other adverse effects

- No further data available

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. Review classification requirements before shipping materials at elevated temperatures.

14.1 UN number	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	Not regulated	Not regulated	Not regulated
14.3 Transport hazard class(es)	Not regulated	Not regulated	Not regulated
14.4 Packing group	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None		

Section 15 – Regulatory Information

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

United States

Federal Regulations:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):

Clean Water Act (CWA): No components in this product are listed as toxic pollutants.

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

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

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

SARA 304 Emergency Release Notification: None.

SARA 311/312 Hazards: None.

SARA 313 Components: Aluminum oxide (CAS No. 1344-28-1) is subject to reporting requirements of S.313.

Toxic Substances Control Act (TSCA): All components 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 reproductive toxicity or cancer. The product is a liquid; therefore, the listed forms of quartz (crystalline silica) and titanium dioxide are not relevant for the product. No other components in this product are listed.

Canada

CEPA DSL/NDSL: The components of this product are included on the DSL or are exempt from DSL/NDSL requirements.

International:

IARC: Quartz (crystalline silica) (CAS No. 14808-60-7) is listed in Group 1. Titanium dioxide (CAS No. 13463-67-7) is listed in Group 2B. No other components of this product are classified with respect to carcinogenicity.

15.2 Chemical Safety Assessment

- None available for the components in this product.

Note: The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

Section 16 – Other Information

List of acronyms and abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists	UN: United Nations
ADNR: Regulation for the carriage of dangerous substances on the Rhine	vPvB: very Persistent, very Bioaccumulative
ATE: Acute Toxicity Estimate	MAK: Maximale Arbeitsplatz-Konzentration
CAA: Clean Air Act	mg/L: Milligrams per Liter
CAS: Chemical Abstract Service Number	NDSL: Non-Domestic Substance List
CEPA: Canadian Environmental Protection Act	NTP: National Toxicology Program
CERCLA: Comprehensive Environmental Response and Liability Act	OSHA: Occupational Safety and Health Administration
CWA: Clean Water Act	PBT: Persistent, Bioaccumulative and Toxic
DSL: Domestic Substance List	PPE: Personal Protective Equipment
DFG: Deutsche Forschungsgemeinschaft	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
ECHA: European Chemicals Agency	SARA: Superfund Amendment and Reauthorization Act
EINECS: European Inventory of Existing Chemical Substances	TSCA: Toxic Substances Control Act
GHS: Global Harmonized System	TWA: Time Weighted Average (8-hour)
IARC: International Agency for Research on Cancer	

References:

- European Chemicals Agency (ECHA) Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- International Agency for Research on Cancer (IARC).

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 new Safety Data Sheet.

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