STONEWARE GLAZES

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: **March 24, 2022**

According to: Article 18(3)(a) of Regulation (EC) No 1272/2008

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

1.1 Product identifier

Product Name: Stoneware Glazes
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).

Other Means of Identification: None known
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 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: Coloramics, LLC
4077 Weaver Court South
Hilliard, OH 43026
www.maycocolors.com
Business Phone: 614-675-1171
Email: info@maycocolors.com

1.4 Emergency telephone number

Emergency Telephone: Transportation emergencies only: Infotrac 1-352-323-3500

Section 2 – Hazard(s) Identification

2.1. Classification of the substance or mixture

According to: Regulation (EC) No 1272/2008 [CLP]

	Health	Environment	Physical
Classification according to Regulation (EC) No 1272/2008 [CLP]	Not classified	Not classified	Not classified
SCL and/or M-factor	N/A	N/A	N/A
Classification Procedure	N/A	N/A	N/A

2.2. Label elements

Label Pictogram: None

Signal Word: None

Hazard Statement: None

Precautionary Statement: None

Supplemental Hazard Information: None

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

Chemical Name	CAS No.	EC No.	% Concentration
Quartz (crystalline silica) [b]	14808-60-7	238-878-4	up to 31.98130%
Trisodium hexafluoroaluminate	13775-53-6	237-410-6	up to 7.42718%
Lithium carbonate	554-13-2	209-062-5	up to 2.77516%
Cobalt oxide advanced grade	1307-96-6	215-154-6	up to 6.97093%
Cobalt oxide [b]	1308-06-1	215-157-2	up to 14.79354%
Titanium dioxide [b]	13463-67-7	236-675-5	up to 0.27981%
Zircon Cadmium Red (6021) and (6028) [b]	72828-62-7	N/A	up to 8.57979%
Zinc oxide	1314-13-2	215-222-5	up to 6.8947%
Manganese dioxide (MnO_2)	1313-13-9	215-202-6	up to 24.48805%
Bone ash, natural	68439-86-1	270-423-5	up to 6.49199%

[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 products, 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: No specific first aid measures are required. Wash skin thoroughly with soap and 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: 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, 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.
Hazardous combustion products: Irritating vapours or fumes may form if product is involved in fire (carbon dioxide, carbon monoxide, nitrogen oxides). Also see **Section 10** - Stability and Reactivity.

5.3 Advice for firefighters

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

Section 6 – Accidental Release Measures

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

Personal Precautions: Use protective gloves, goggles and suitable protective clothing. Do not smoke, use open fire or other sources of ignition. 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.

Section 8– Exposure Controls / Personal Protection

8.1 Control Parameters:

Chemical Name	CAS No.	ACGIH TLVs TWA (mg/m^3)	OSHA PELs TWA (mg/m^3)	NIOSH RELs TWA (mg/m^3)	DFG MAK TWA (mg/m^3)
Quartz (crystalline silica)	14808-60-7	0.025	0.05	0.05	Not applicable
Lithium carbonate (as lithium compounds)	554-13-2	Not applicable	Not applicable	Not applicable	0.2
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.

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:** **Color:** **Odor:**	 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):	Not available	**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 further 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 form 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 contact.
Potential signs and symptoms: None expected under conditions of normal use.

Acute oral toxicity:	Lithium carbonate (CAS No. 554-13-2), manganese dioxide (MnO_2) (CAS No. 1313-13-9), have 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) and trisodium hexafluoroaluminate (CAS No. 13775-53-6) have been classified for acute inhalation toxicity (Category 4). However, the product is practically non-toxic based on available data.
Skin corrosion/irritation:	Lithium carbonate (CAS No. 554-13-2) and bone ash, natural (CAS No. 68439-86-1) have been classified for skin irritation. The other components in this product are not irritating to the skin based on animal studies and available data.
Serious eye damage/irritation:	Bone ash, natural (CAS No. 68439-86-1) has been classified for eye irritation. The other 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), cobalt oxide (CAS No. 1308-06-1), and Zircon Cadmium Red (6021) and (6028) (CAS No. 72828-62-7) have been classified for skin 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:	Trisodium hexafluoroaluminate (CAS No. 13775-53-6) has been classified as a lactation hazard. The components in this product are not reproductive hazards based on available information, human and/or animal studies.
Specific target organ toxicity (single exposure):	Zinc oxide (CAS No. 1314-13-2) has been associated with mucus membrane irritation. Zircon Cadmium Red (6021) and (6028) (CAS No. 72828-62-7) has been classified for specific target organ toxicity (Category 3; may cause respiratory 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), and trisodium hexafluoroaluminate (CAS No. 13775-53-6) have 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 (European Chemicals Agency). 2022. REACH Registered Substances Database. https://echa.europa.eu/search-for-chemicals
IARC (International Agency for Research on Cancer). 2022. Agents Classified by the IARC Monographs, Volumes 1–129. https://monographs.iarc.who.int/list-of-classifications/
NTP (National Toxicology Program). 2022. 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/roc14

Section 12 – Ecological Information

12.1 Toxicity: This product is not expected to be harmful or toxic to aquatic life.

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	Oncorrhynchus 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
		Pseudokircherniella 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)

Note: Trisodium hexafluoroaluminate (CAS No. 13775-53-6) is considered toxic for aquatic organisms; toxicity data is not available.

12.2 Persistence and degradability

- No data available for the other components of the product.

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.

12.4 Mobility in Soil

- No data available.

12.5 Results of PBT and vPvB assessment

- No data available.

12.6 Other adverse effects

- No further data available.

References:

ECHA (European Chemicals Agency). 2022. 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. Review classification requirements before shipping materials to high temperatures.

	ADR/RID/ADNR/DOT, IMO/IMDG, ICAO/IATA
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es):	Not regulated
14.4 Packing group	Not regulated
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

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**.

European Union
Seveso Directive (2012/18/EU): Methanol (CAS No. 67-56-1) is listed in Annex I, Part 2 as a named dangerous substance with a lower tier requirement of 500 tonnes and an upper tier requirement of 5000 tonnes. No other components in this product are listed.
Regulation (EC) No. 1005/2009, Annex I and II: No components in this product are listed.
Regulation (EU) No 649/2012, Annex I, Parts I-III: No components in this product are listed.
Regulation (EU) 2019/1021, Annex I: No components in this product are listed.

Germany:
Wassergefährdungsklasse (water hazard class): WGK 0 – Nicht wassergefährdend.

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.

Section 16 – Other Information

List of acronyms and abbreviations:

ACGIH: American conference of Governmental Hygenists	PEL: Permissible Exposure Level
CAS: Chemical Abstract Service Number	PPE: Personal Protective Equipment
CLP: Classification, Labelling and Packaging Regulation (EC) No 1272/2008	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaf Maximale Arbeitsplatz-Konzentration	REL: Recommended exposure level
EC: European Commission	SDS: Safety Data Sheet
ECHA: European Chemicals Agency	TLV: Threshold limit value
HEPA: High Efficiency Particulate Air	TWA: Time-weighted average
IBC: International Bulk Chemical	UN: United Nations
IARC: International Agency for Research on Cancer	vPvB: very Persistent, very Bioaccumulative
MARPOL: Maritime Pollution	WGK: Wassergefährdungsklasse
PBT: Persistent, Bioaccumulative and Toxic	

References:

ECHA (European Chemicals Agency). 2022. REACH Registered Substances Database. https://echa.europa.eu/search-for-chemicals
IARC (International Agency for Research on Cancer). 2022. Agents Classified by the IARC Monographs, Volumes 1–129. https://monographs.iarc.who.int/list-of-classifications/
NTP (National Toxicology Program). 2022. 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/roc14
https://ntp.niehs.nih.gov/go/roc14

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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