

# 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

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)

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: Keramix Handels  
Industriestrasse 7  
Kroneuburg, Austria 2100  
[www.maycocolors.eu](http://www.maycocolors.eu)

Business Phone: 431-226273152

Email: [info@maycocolors.com](mailto: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]	Specific Target Organ Toxicity – Single Exposure (Category 2) H371	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:

Signal Word: Warning

Hazard statements & Precautions:

**Specific Target Organ Toxicity – Single Exposure (Category 2)** May irritate gastrointestinal tract.

Wash hands thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product (P270)

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

IF exposed; call a poison centre or doctor (P309+P311)  
IF GASTROINTESTINAL irritation occurs: Get medical advice/attention.  
(P332+P313)  
Do not induce vomiting. (P331)  
Store Locked up (P405)  
Dispose of contents/container in accordance with local, regional, national, and/or international regulations. (P501)

**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) <sup>b</sup>	14808-60-7	238-878-4	up to 27.28554%
Cupric oxide <sup>b</sup>	1317-38-0	215-269-1	up to 3.73133%
Cobalt oxide advanced grade <sup>b</sup>	1307-96-6	215-154-6	up to 1.83898%
Cobalt oxide <sup>b</sup>	1308-06-1	215-157-2	up to 6.00000%
Titanium dioxide <sup>b</sup>	13463-67-7	236-675-5	up to 0.91380%
Zinc oxide <sup>b</sup>	1314-13-2	215-222-5	up to 8.60289%
Manganese dioxide (MnO <sub>2</sub> ) <sup>b</sup>	1313-13-9	215-202-6	up to 21.19%

<sup>a</sup> 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.

<sup>b</sup> 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:** 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, 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 <sup>3</sup> )	OSHA PELs TWA (mg/m <sup>3</sup> )	NIOSH RELs TWA (mg/m <sup>3</sup> )	DFG MAK TWA (mg/m <sup>3</sup> )
Quartz (crystalline silica)	14808-60-7	0.025	0.05	0.05	Not applicable
Cupric 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 <sub>2</sub> ) (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.

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

**Potential signs and symptoms:**

<b>Acute oral toxicity:</b>	Manganese dioxide (MnO <sub>2</sub> ) (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.
<b>Acute dermal toxicity:</b>	The product is practically non-toxic based on available data.
<b>Acute inhalation toxicity:</b>	Manganese dioxide (MnO <sub>2</sub> ) (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.
<b>Skin corrosion/irritation:</b>	The components in this product are not irritating to the skin based on animal studies and available data. Wash thoroughly if on skin.
<b>Serious eye damage/irritation:</b>	The components in this product are not irritating to the eyes based on animal studies and available data.
<b>Respiratory or skin sensitization:</b>	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.
<b>Mutagenicity:</b>	The components of this product are not classified with respect to mutagenicity by the IARC, NTP, and ACGIH.
<b>Carcinogenicity:</b>	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.
<b>Reproductive Toxicity:</b>	The components in this product are not reproductive hazards based on available information, human and/or animal studies.
<b>Specific target organ toxicity (single exposure):</b>	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 (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 <sub>50</sub> = 1.5 Co/L
		Ceriodaphnia dubia	EC <sub>50</sub> = 0.61 mg/L
		Lemna minor	EC <sub>50</sub> = 52 ug/L
Zinc oxide	1314-13-2	Oncorhynchus Mykiss	LC <sub>50</sub> =0.169 mg/L
		Ceriodaphnia dubia	EC <sub>50</sub> =0.147 mg Zn/L (geomean value) at neutral/high pH and low hardness
		Pseudokirchneriella subcapitata	LC <sub>50</sub> =0.042 mg Zn/L
Cobalt oxide	1308-06-1	Oncorhynchus mykiss (rainbow trout)	LC <sub>50</sub> = 1.51 mg/L (96-hour)
		Cladoceran (water flea)	LC <sub>50</sub> = 0.61 mg/L
		Lemna minor (duckweed)	EC <sub>50</sub> = 0.1985 mg/L (7 days)

**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.
- Cupric oxide (CAS No. 1317-38-0) has no potential for bioaccumulation.

**12.4 Mobility in Soil**

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

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

#### 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 Hygienists	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 Forschungsgemeinschaft 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.

**Revision Indicator:** This is a new Safety Data Sheet.

**Creation Date:** March 24, 2021