



# DRY STONEWARE GLAZES

## SAFETY DATA SHEET (SDS)

Version: 05

Date of Issue: February 17, 2025

According to: Regulation (EC) No. 1272/2008

Regulation (EC) No. 1907/2006

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

#### 1.1 Product identifier

Product Name: DRY STONEWARE GLAZES

Product Colors: BLACK WALNUT (SD104), MIRROR BLACK (SD132), RAINFOREST (SD185), IVY (SD193), GREEN TEA (SD108), MIDNIGHT RAIN (SD115), AURORA GREEN (SD146), MOONSCAPE (SD147), SAND & SEA (SD167), NIGHT MOTH (SD181), BLUE OPAL (SD252), MICRO JADE (SD216)

Product sizes: 5 lbs per color

Other Means of Identification

Unique Formula Identifier: See product label

Other: None known

Product Description: Powder formulations intended to be diluted in water and 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 general (adults) arts and crafts purposes. This product is diluted in water and 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

##### EU Contact:

Business Phone: 614-675-1171

Email: [info@maycocolors.com](mailto: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: Regulation (EC) No 1272/2008 [CLP]

|                                                                       | Physical           | Health                                                                                                                                                                                                                                   | Environmental <sup>a</sup>                                                               |
|-----------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Classification according to Regulation (EC) No 1272/2008 [CLP]</b> | Not classified     | H373: Specific Target Organ Toxicity (repeated exposure, Category 2, lungs)<br>H350: Carcinogenicity (Category 1A) (Inhalation)<br>H371: Specific Target Organ Toxicity (single exposure, Category 2, gastrointestinal tract irritation) | H400: Acute aquatic toxicity (Category 1)<br>H410: Chronic aquatic toxicity (Category 1) |
| <b>SCL and/or M-factor</b>                                            | Not applicable     | Not applicable                                                                                                                                                                                                                           | Not applicable                                                                           |
| <b>Classification Procedure</b>                                       | Weight of evidence | Weight of evidence                                                                                                                                                                                                                       | Weight of evidence                                                                       |

<sup>a</sup> This SDS applies to a series of colors, as such the environmental classifications listed do not pertain to all colors. It should be noted that some colors do not present environmental concerns.

### 2.2. Label elements

Label Pictogram:



**Signal Word:** Danger

**Hazard statements & Precautions:**

**Specific Target Organ Toxicity (repeated exposure, Category 2, lungs) (H373)**

**May cause damage to lungs through prolonged or repeated inhalation.**

**P260:** Do not breathe dust.

**P314:** Get medical advice/attention if you feel unwell.

**P501:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Carcinogenicity (Category 1A) (Inhalation) (H350)**

**May cause cancer by inhalation.**

**P201:** Obtain special instructions before use.

**P202:** Do not handle until all safety precautions have been read and understood.

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P308 + P313:** IF exposed or concerned: Get medical advice/attention.

**P405:** Store locked up.

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

**Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract irritation) (H371)**

**May cause irritation to gastrointestinal tract through oral exposure.**

**P260:** Do not breathe dust.

**P264:** Wash hands thoroughly after handling.

**P270:** Do not eat, drink or smoke when using this product.

**P308 + P311:** IF exposed or concerned: Call a POISON CENTER/doctor.

**P405:** Store locked up.

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

**Acute aquatic toxicity  
(Category 1) (H400)  
Chronic aquatic toxicity  
(Category 1) (H410)**

**Very toxic to aquatic life with long lasting effects.**

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

**P391:** Collect spillage.

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

**Supplemental Hazard Information:** None

## 2.3. Other hazards

- This product is not expected to be endocrine disrupting.
- This product is not expected to meet the criteria for vPvB or PBT in accordance with Regulation (EC) No. 1907/2006, Annex XIII
- Substances when carried in single or combination packaging containing a net quantity per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of ADR provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Should the single or inner packaging condition or provisions not be met, transportation restrictions will need to be revisited.
- Mechanical irritation of the eyes and respiratory system may occur following exposure dusts.

## 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 <sup>b</sup>                                                                                                                                                                            |
|--------------------------------|------------|-----------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quartz<br>(crystalline silica) | 14808-60-7 | 238-878-4 | ≤ 20.7100%                   | H350: Carcinogenicity (Category 1A) (inhalation);<br>H372: Specific target organ toxicity (repeated exposure, Category 1, lungs)                                                                    |
| Cobalt (II, III) oxide         | 1308-06-1  | 215-157-2 | ≤ 1.7200%                    | H334: Respiratory sensitization (Category 1B);<br>H412: Chronic aquatic toxicity (Category 3)                                                                                                       |
| Cupric oxide                   | 1317-38-0  | 215-269-1 | ≤ 4.3442%                    | H371: Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract irritation);<br>H400: Acute aquatic toxicity (Category 1);<br>H410: Chronic aquatic toxicity (Category 1) |
| Zinc oxide                     | 1314-13-2  | 215-222-5 | ≤ 24.6800%                   | H371: Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract irritation);                                                                                              |
| Feldspar                       | 68476-25-5 | 270-666-7 | ≤ 54.1200%                   | H335: Specific target organ toxicity (single exposure, Category 3, respiratory irritation);<br>H319: Eye Irritation (Category 2)                                                                    |
| Boron oxide <sup>c</sup>       | 1303-86-2  | 215-125-8 | ≤ 0.4080%                    | H360FD: Reproductive toxicity (Category 1B)<br>(May damage fertility and the unborn child)                                                                                                          |

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

<sup>b</sup> GHS classifications are based on classifications in the CLP as well as available toxicology data regarding the individual ingredients.

<sup>c</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 dust is inhaled and 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. As with all dusty materials, inhalation may cause respiratory irritation, sneezing, coughing and runny nose.

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.

Assessment of this product was based on the assumption that the glaze will not be sanded after it has been fired in the kiln.

|                             | Specific Concentration Limit | Multiplying-Factor | Acute Toxicity Estimate                                 |
|-----------------------------|------------------------------|--------------------|---------------------------------------------------------|
| <b>DRY STONEWARE GLAZES</b> | N/A                          | N/A                | >2000 mg/kg (oral/dermal)<br>>5 mg/L (inhalation, dust) |

## Section 4 – First Aid Measures

### 4.1 Description of first aid measures

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

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

**Inhalation:** IF INHALED: Inhaling dust may cause discomfort in the chest, respiratory irritation, shortness of breath and coughing. 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, 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:
- Also see **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:** 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. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Dispose of contents/container in accordance with local/regional/national/international regulations.

### 6.4 Reference to other sections

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

## Section 7– Handling and Storage

### 7.1 Precautions for safe handling

- Do not breathe dust
- 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

- Store locked up.
- 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:** Airborne particles, such as dust, are foreseeable under conditions of normal use.

| Chemical Name                                                                      | CAS No.    | ACGIH<br>TLVs TWA                    | OSHA<br>PELs TWA                                                                                                                | NIOSH<br>RELs TWA                | DFG MAK<br>TWA                 |
|------------------------------------------------------------------------------------|------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|
| Silica, crystalline, mixed respirable (quartz, cristobalite, tridymite)            | 14808-60-7 | 0.025 mg/m <sup>3</sup> <sup>a</sup> | 0.05 mg/m <sup>3</sup>                                                                                                          | 0.05 mg/m <sup>3</sup>           | N/A                            |
| Copper, dusts & mists (as Cu)                                                      | 1317-38-0  | 1 mg/m <sup>3</sup> <sup>b</sup>     | 1 mg/m <sup>3</sup> <sup>b</sup>                                                                                                | 1 mg/m <sup>3</sup> <sup>c</sup> | N/A                            |
| Boron oxide                                                                        | 1303-86-2  | N/A                                  | 15 mg/m <sup>3</sup> <sup>d</sup>                                                                                               | 10 mg/m <sup>3</sup>             | N/A                            |
| Zinc oxide, dust & fume                                                            | 1314-13-2  | 2 mg/m <sup>3</sup> <sup>a</sup>     | 5mg/m <sup>3</sup>                                                                                                              | 5 mg/m <sup>3</sup>              | 0.1 mg/m <sup>3</sup> <b>R</b> |
| N/A – Not applicable<br><b>R</b> – Measured as respirable fractions of the aerosol |            |                                      | <sup>a</sup> Respirable particulate matter<br><sup>b</sup> Dusts & mists<br><sup>c</sup> Except fume<br><sup>d</sup> Total dust |                                  |                                |

### 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 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.

|                                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory:</b>                     | Use appropriate respiratory protection when handling to minimize exposure to dust particles. 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><br><b>Physical state:</b><br><b>Form:</b><br><b>Color:</b><br><b>Odor:</b> | Dry Powder<br>Powder<br><b>See section 1.1</b><br>Not available | <b>Partition Coefficient n-octanol/water:</b><br><b>Auto-ignition temperature:</b> | Not available<br>Not available |
| <b>pH (as supplied):</b>                                                                      | Not available                                                   | <b>Decomposition temperature:</b>                                                  | Not available                  |
| <b>Freezing point:</b>                                                                        | Not available                                                   | <b>Dynamic viscosity:</b>                                                          | Not available                  |
| <b>Boiling point:</b>                                                                         | Not available                                                   | <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                  |

#### 9.2.1 Information with Regard to Physical Hazard Classes

|                                                                                  |               |
|----------------------------------------------------------------------------------|---------------|
| <b>Explosives</b>                                                                | Not available |
| <b>Flammable gases</b>                                                           | Not available |
| <b>Aerosols</b>                                                                  | Not available |
| <b>Oxidising gases</b>                                                           | Not available |
| <b>Gases under pressure</b>                                                      | Not available |
| <b>Flammable liquids</b>                                                         | Not available |
| <b>Flammable solids</b>                                                          | Not available |
| <b>Self-reactive substances and mixtures</b>                                     | Not available |
| <b>Pyrophoric liquids</b>                                                        | Not available |
| <b>Pyrophoric solids</b>                                                         | Not available |
| <b>Self-heating substances and mixtures</b>                                      | Not available |
| <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Not available |

|                                |               |
|--------------------------------|---------------|
| <b>Oxidising liquids</b>       | Not available |
| <b>Oxidizing solids</b>        | Not available |
| <b>Organic peroxides</b>       | Not available |
| <b>Corrosive to metals</b>     | Not available |
| <b>Desensitised explosives</b> | Not available |

## 9.2.2 Other Safety Characteristics

|                                                     |               |
|-----------------------------------------------------|---------------|
| <b>Mechanical sensitivity</b>                       | Not available |
| <b>Self-accelerating polymerisation temperature</b> | Not available |
| <b>Formation of explosible dust/air mixtures</b>    | Not available |
| <b>Acid/alkaline reserve; (e) evaporation rate</b>  | Not available |
| <b>Miscibility</b>                                  | Not available |
| <b>Conductivity</b>                                 | Not available |
| <b>Corrosiveness</b>                                | Not available |
| <b>Gas group</b>                                    | Not available |
| <b>Redox potential</b>                              | Not available |
| <b>Radical formation potential</b>                  | Not available |
| <b>Photocatalytic properties</b>                    | Not 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 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

### 11.1. Information on hazard classes:

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

**Potential signs and symptoms:**

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute oral toxicity:</b>                              | The product is practically nontoxic based on available animal and human use data. ATE is >2000 mg/kg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Acute dermal toxicity:</b>                            | The product is practically non-toxic based on available animal and human use data. ATE is >2000 mg/kg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Acute inhalation toxicity:</b>                        | The product is practically non-toxic based on available animal and human use data. ATE is >5 mg/L (dust).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <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) has 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. Mechanical irritation may occur if powder gets into the eyes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <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 ingredients in this product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Carcinogenicity:</b>                                  | Quartz (crystalline silica) (airborne, unbound particles of respirable size) (CAS No. 14808-60-7) has been classified for carcinogenicity (Category 1). Product classification is warranted for carcinogenicity based on the concentration of quartz in the product and the nature of the product ( <i>i.e.</i> , powder). 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. The other ingredients in the product >0.1% are not carcinogenic based on animal studies or no data identified for the ingredients in this product.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reproductive toxicity:</b>                            | Boron oxide (CAS No. 1303-86-2) has been classified for reproductive toxicity (Category 1B; may damage fertility or the unborn child); however, 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). The other ingredients in this product >0.1% are not reproductive toxicants based on animal studies, or no data identified for the ingredients in this product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Specific target organ toxicity (single exposure):</b> | Cupric oxide (CAS No. 1317-38-0) 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 warranted for this effect given the concentration of cupric oxide in the product and a review of available data. Zinc oxide (CAS No. 1314-13-2) has also been classified for specific target organ toxicity (single exposure, Category 2; may cause irritation to the gastrointestinal tract through oral exposure). Zinc oxide does not contribute to the gastrointestinal irritation effect given the concentration of zinc in the product and the intended use of the product ( <i>i.e.</i> , powder diluted in water). 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. 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 ingredients 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 inhalation). Product classification is warranted for specific target organ toxicity (repeated exposure, Category 2; may cause damage to lungs through prolonged or repeated inhalation) given the concentration of quartz in the product and the nature of the product (*i.e.*, powder). Extended inhalation at levels above the workplace limit value can cause irreversible damage to the lungs (silicosis). 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 of this product >1% are not aspiration hazards based on animal studies or no data identified for the ingredients in this product.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

- This product is not expected to be endocrine disrupting.

### 11.2.2 Information on other hazards

- No other hazards to note.

## References:

ECHA (European Chemicals Agency). 2023. REACH Registered Substances Database. <https://echa.europa.eu/search-for-chemicals>  
 IARC (International Agency for Research on Cancer). 2025. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>  
 NTP (National Toxicology Program). 2021. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. <https://ntp.niehs.nih.gov/go/roc15>  
 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

- Product is classified for acute and chronic aquatic toxicity (Category 1).

| Chemical Name                | CAS No.   | Species                           | Result                                                                                                        |
|------------------------------|-----------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| 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>Cladocera</i>                  | LC <sub>50</sub> : 0.61 mg Co/L                                                                               |
|                              |           | <i>Lemna minor</i>                | EC <sub>50</sub> : 52 µg/L                                                                                    |
| Cupric oxide <sup>a, b</sup> | 1317-38-0 | -                                 | L(E)C <sub>50</sub> : 34.4 µg Cu/L                                                                            |
|                              |           |                                   | NOEC: 14.9 µg Cu/L                                                                                            |
| Zinc oxide                   | 1314-13-2 | <i>Danio rerio</i>                | LC <sub>50</sub> (96h): 1.55 mg/L (bulk ZnO) nominal<br>EC <sub>50</sub> (84h): 2.066 mg/L (bulk ZnO) nominal |
|                              |           | <i>Daphnia magna</i>              | EC <sub>50</sub> (48h): > 5 - < 16.2 mg/L (bulk ZnO) nominal                                                  |
|                              |           | <i>Daphnia magna</i>              | EC <sub>50</sub> (48h): >1.4 - <2.5 mg/L nominal                                                              |
|                              |           | Freshwater Alga and Cyanobacteria | EC <sub>10</sub> (72h): 0.42 mg/L nominal                                                                     |

<sup>a</sup> According to Regulation (EC) No. 1272/2008 (CLP), M=100 for acute aquatic effects and M=10 for chronic aquatic effects.

<sup>b</sup> The lowest species-specific acute L(E)C<sub>50</sub> and chronic NOEC values across pHs were selected as final environmental classification reference values.

## 12.2 Persistence and degradability

- No data available for the ingredients in the product.

## 12.3 Bioaccumulative potential

- Cobalt does not biomagnify, but rather exhibits biodilution, particularly in upper levels of both aquatic and terrestrial food chains. Cobalt (II, III) oxide (CAS No. 1308-06-1) has a bioconcentration factor of 180 – 4000.
- No data available for the other ingredients in the product.

## 12.4 Mobility in Soil

- Cupric oxide (CAS No. 1317-38-0) is very slightly [ $K_d = 2120 \text{ L/kg}$  ( $\log K_p (\text{pm/w}) = 3.33$ ) (50<sup>th</sup> percentile)] mobile in soils.
- No data available for the other ingredients in the product.

## 12.5 Results of PBT and vPvB assessment

- The ingredients in this product are not considered PBT or vPvB.

## 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. Substances when carried in single or combination packaging containing a net quantity per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of ADR provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Should the single or inner packaging condition or provisions not be met, transportation restrictions will need to be revisited.

Review classification requirements before shipping materials at elevated temperatures.

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

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

## Section 15 – Regulatory Information

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

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

#### European Union

**Seveso Directive (2012/18/EU):** No ingredients in this product are listed.

**Regulation (EC) No. 1005/2009, Annex I and II:** No ingredients in this product are listed.

**Regulation (EC) No. 649/2012, Annex I, Parts I-III:** No ingredients in this product are listed.

**Regulation (EC) No. 2019/1021, Annex I:** No ingredients in this product are listed.

#### Germany:

**Wassergefährdungsklasse (water hazard class):** WGK 3 – Schwach wassergefährdend (severe hazard to waters).

#### International:

**IARC:** Quartz (crystalline silica) (CAS No. 14808-60-7), arsenic (listed as arsenic and inorganic arsenic compounds), beryllium (listed as beryllium and beryllium compounds), cadmium (listed as cadmium and cadmium compounds), chromium [listed as chromium (VI) compounds], and nickel compounds are listed in Group 1, carcinogenic to humans. Cobalt oxide (CAS No. 1308-06-1) (listed as cobalt (II, III) oxide), and mercury (listed as mercury and inorganic mercury compounds) are classified as Group 3, not classifiable as to its carcinogenicity to humans. No other ingredients 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 Industrial Hygienists                                | N/A: Not applicable                                        |
| ATE: Acute Toxicity Estimate                                                                    | NOEC: No Observed Effect Concentration                     |
| CAA: Clean Air Act                                                                              | NIOSH: National Institute for Occupational Safety & Health |
| CAS: Chemical Abstract Service Number                                                           | NTP: National Toxicology Program                           |
| CERCLA: Comprehensive Environmental Response and Liability Act                                  | OSHA: Occupational Safety and Health Administration        |
| CLP : Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances | PBT: Persistent, Bioaccumulative and Toxic                 |
| CWA: Clean Water Act                                                                            | PEL: Permissible Exposure Level                            |
| DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatzkonzentration                     | PPE: Personal Protective Equipment                         |
| EC: European Commission                                                                         | REL: Recommended exposure level                            |
| EC <sub>10</sub> : 10% effect concentration                                                     | SARA: Superfund Amendment and Reauthorization Act          |
| EC <sub>50</sub> : Median effective concentration                                               | 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                                         |
| LC <sub>50</sub> : Lethal Concentration 50%                                                     | VOC: Volatile Organic Compound                             |
| MARPOL: Maritime Pollution                                                                      | vPvB: very Persistent, very Bioaccumulative                |

**References:**

ECHA (European Chemicals Agency). 2023. REACH Registered Substances Database.

<https://echa.europa.eu/search-for-chemicals>

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

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

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 4<sup>th</sup> revision Safety Data Sheet.

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