

83437-XXXX

# BEAD GLAZE, SUPERGLOOP GLAZE

## SAFETY DATA SHEET (SDS)

Version: 01

Date of Issue: September 12, 2024

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

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

#### 1.1 Product identifier

Product Name: Bead Glaze, Supergloop Glaze  
 Product Colors: Assorted  
 Product sizes: 16 oz  
 Other Means of Identification: None known  
 Product Description: Colored liquid glaze formulations intended to be applied by dipping or by using a brush.

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

Relevant identified use(s): The product is intended for use by individuals 13 years and older for arts and crafts purposes.

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

Manufacturer/Supplier: Ritual Glaze LLC  
 2300 SE 7th Avenue  
 Portland, OR 97214 USA  
 Business Phone: 971-266-3174  
 Email: info@ritualglaze.com

#### 1.4 Emergency telephone number

Emergency Telephone: Contact the local poison control centre.

### Section 2 – Hazard(s) Identification

#### 2.1. Classification of the substance or mixture

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

Physical	Health	Environmental <sup>a</sup>
Not classified	Not classified	Not classified

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

#### 2.2. Label elements

Label Pictogram: None required  
 Signal Word: None required  
 Hazard statement: None required  
 Supplemental Hazard Information: None

#### 2.3. Other hazards

- No other hazards have been identified for this product.

### Section 3 – Composition / Information on Ingredients

#### 3.1 Substances

The product is a mixture and not a substance.

### 3.2 Mixtures

Chemical Name	CAS No.	EC No.	% Concentration	GHS Hazards
Zinc oxide	1314-13-2	215-222-5	≤ 9.76%	H371: Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract); H400: Hazardous to the aquatic environment - short term (acute) hazard (Category 1); H410: Hazardous to the aquatic environment - long term (chronic) hazard (Category 1)
Crystalline silica	14808-60-7	238-878-4	≥ 15%	H350: Carcinogenicity (Category 1) (Inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1, lungs)

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.

Several ingredients in the product contain crystalline silica which may be hazardous when inhaled. Given the nature and physical form of the product (*i.e.*, liquid glaze), airborne respirable particles would not likely be released from the product and therefore the hazard is not relevant to the product. It was assumed that the glaze will not be sanded after it has been fired in the kiln.

## Section 4 – First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and immediately flush eyes with water. Seek medical attention if in doubt.

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

**Inhalation:** No specific first aid measures are required. Inhalation route of exposure is not anticipated with intended use. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if in doubt.

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

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to **Section 11 - Toxicological Information**.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Not required.

## Section 5 – Fire Fighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding area if material is involved in a fire (e.g., water fog, 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:** Ventilate area if spilled in confined space or other poorly ventilated areas. Observe PPE advice in **Section 8 – Exposure Controls/Personal Protection**.

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

### 6.2 Environmental precautions:

- Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities. Prevent further leakage or spillage if it is safe to do so.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures:** Contain spill if safe to do so. Collect recoverable product and place in a designated container for recycle and/or disposal. Ventilate contaminated area thoroughly. Dispose of contents/container in accordance with local/regional/national/international regulations.

### 6.4 Reference to other sections

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

## Section 7– Handling and Storage

### 7.1 Precautions for safe handling

- Wash hands thoroughly after handling.
- Wash contaminated clothing before reuse.
- Employees should be trained in the safe use and handling of chemical materials.
- Refer to **Section 8 - Exposure Controls/Personal Protection**.

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed to avoid spills.
- Keep in a cool dry place.

### 7.3 Specific end use(s)

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

## Section 8– Exposure Controls / Personal Protection

### 8.1 Control Parameters:

**Occupational exposure limits:** Only vapours were considered to be foreseeable under conditions of normal use. Airborne particles, such as dust, are not foreseeable under conditions of normal use.

Chemical Name	CAS No.	ACGIH TLV TWA	OSHA PEL TWA	NIOSH REL TWA	DFG MAKs TWA
Crystalline silica	14808-60-7	0.025 mg/m <sup>3</sup> R	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	N/A
Zinc oxide	1314-13-2	2 mg/m <sup>3</sup> <sup>a</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup> R
N/A – Not applicable			<sup>a</sup>	Respirable particulate matter	
R – Measured as respirable fractions of the aerosol			<sup>b</sup>	Total dust	
			<sup>c</sup>	Multiplied with the material density	

### 8.2 Exposure Controls:

#### Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

### 8.3 Personal Protective Equipment

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

<b>Respiratory:</b>	Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. 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.
<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>Colour:</b>	Assorted	<b>Auto-ignition temperature:</b>	Not available
<b>Odour/Odour threshold:</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>pH (as supplied):</b>	Not available	<b>Dynamic viscosity:</b>	Not available
<b>Melting/freezing point:</b>	Not available	<b>Molecular weight:</b>	Not available
<b>Boiling point/range:</b>	Not available	<b>Taste:</b>	Not available
<b>Flash point:</b>	Not available	<b>Explosive properties:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Oxidizing properties:</b>	Not available
<b>Flammability:</b>	Not available	<b>Surface tension:</b>	Not available
<b>Upper/lower explosive limits:</b>	Not available	<b>Volatile component:</b>	Not available
<b>Vapor pressure:</b>	Not available	<b>Gas group:</b>	Not available
<b>Water solubility:</b>	Not available	<b>pH (as solution):</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available	<b>VOC:</b>	Not available
<b>Specific gravity (Water = 1):</b>	Not available	<b>Particle size range:</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

- 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 oxidisers
- 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 Likely routes of exposure: Skin contact.**

**Potential signs and symptoms:** None expected under conditions of normal use.

<b>Acute oral toxicity:</b>	The product is practically non-toxic based on human and/or animal studies. Oral ATE >5000 mg/kg.
<b>Acute dermal toxicity:</b>	The product is practically non-toxic based on human and/or animal studies. Dermal ATE >2000 mg/kg.
<b>Acute inhalation toxicity:</b>	The product is practically non-toxic based on human and/or animal studies. Inhalation ATE >20 mg/L (vapours).
<b>Skin corrosion/irritation:</b>	The ingredients >1% in the product are not skin irritants based on human and/or animal studies.
<b>Serious eye damage/irritation:</b>	The ingredients >1% in the product are not damaging to the eyes or eye irritants based on available human and/or animal studies.
<b>Respiratory or skin sensitization:</b>	The ingredients >0.1% in the product are not sensitizing to the skin based on human and/or animal studies.
<b>Mutagenicity:</b>	The ingredients >0.1% in the product are not mutagenic based on human and/or animal studies.
<b>Carcinogenicity:</b>	Crystalline silica (airborne, unbound particles of respirable size) (CAS No. 14808-60-7) has been classified for carcinogenicity (Category 1). 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. Product classification is not warranted for carcinogenicity based on a review of available data and the nature/physical form of the product ( <i>i.e.</i> , liquid glaze). The other ingredients >0.1% in the product are not carcinogenic based on animal studies or no data identified for the components in this product.
<b>Reproductive Toxicity:</b>	The ingredients >0.1% in the product are not reproductive toxicants based on human and/or animal studies.
<b>Specific target organ toxicity (single exposure):</b>	Zinc oxide (CAS No. 1314-13-2) has been classified for specific target organ toxicity (single exposure, Category 2; may cause irritation to the gastrointestinal tract through oral exposure). Product classification is not warranted for gastrointestinal irritation given the concentration of zinc oxide in the product and a review of available data. The other ingredients >1% in the product are not specific target organ toxicity (single exposure) toxicants based on human and/or animal studies.

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

Crystalline silica (CAS No. 14808-60-7) has been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to lungs through prolonged or repeated exposure *via* inhalation). Product classification is not warranted for specific target organ toxicity given the nature/physical form of the product (*i.e.*, liquid glaze). The other ingredients >1% in the product are not specific target organ toxicity (repeated exposure) toxicants based on human and/or animal studies.

**Aspiration hazard:**

The ingredients >1% in the product are not aspiration hazards based on human and/or animal studies.

**References:**

ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database.

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

IARC (International Agency for Research on Cancer). 2024. 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>

## Section 12 – Ecological Information

**12.1 Toxicity**

- Environmental hazards are outside the scope of OSHA. Based on the criteria outlined in the 10<sup>th</sup> revision of the GHS, product classification for acute and chronic aquatic toxicity (Category 2) is warranted which results in the Transportation Information provided in Section 14.

Chemical Name	CAS No.	Species	Value
Zinc oxide	1314-13-2	<i>Danio rerio</i>	LC <sub>50</sub> (96h): 1.55 mg/L (bulk ZnO) nominal 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

**12.2 Persistence and degradability**

- No data available for the ingredients in the product.

**12.3 Bioaccumulative potential**

- No data available for the ingredients in the product.

**12.4 Mobility in Soil**

- No data available for the 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 Other adverse effects**

- No further data available.

**References:**

ECHA (European Chemicals Agency). 2024. 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 is not expected to exhibit hazards.

## Section 14 – Transport Information

Note: This product is regulated as dangerous goods for transport.

<b>14.1 UN number</b>	3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>14.3 Transport hazard class(es):</b>	9
<b>14.4 Packing group</b>	III
<b>14.5 Environmental hazards</b>	Chronic
<b>14.6 Special precautions for user</b>	None
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	If the product is transported in bulk, the regulations are applied to the product.

## Section 15 – Regulatory Information

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

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

#### United States

##### Federal Regulations:

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

No components in this product >0.1% are subject to reporting under CERCLA.

**Clean Water Act (CWA):** Chromium compounds, cadmium compounds, and zinc compounds are listed by the CWA as toxic pollutants. No other components in this product are listed as toxic pollutants.

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

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

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

**SARA 304 Emergency Release Notification:** No components in this product are subject to reporting requirements of S.304.

**SARA 311/312 Hazards:** No components in this product are subject to reporting requirements of S.311/312.

**SARA 313 Components:** Methanol (CAS No. 67-56-1), zinc compounds, chromium compounds, cadmium compounds, nickel compounds, cobalt, and lead are subject to reporting requirements of S.313. No other components in this product are subject to reporting requirements of S.313.

**Toxic Substances Control Act (TSCA):** Ulexite (CAS No. 1319-33-1) and silicic acid, zirconium salt, cadmium pigment-encapsulated (CAS No. 102184-95-2) are not listed on the TSCA. All other components are listed on the non-confidential TSCA inventory or are exempt.

##### State Regulations:

**California Proposition 65 List:** Methanol (CAS No. 67-56-1), lead (listed as lead / lead and lead compounds), and cadmium (listed as cadmium / cadmium and cadmium compounds). A screening assessment indicates that the levels of these chemicals in the products does not warrant warnings for the purpose of California Proposition 65. Crystalline silica [listed as silica, crystalline (airborne particles of respirable size)] (CAS No. 14808-60-7) is listed on the Proposition 65 List. Given the nature/physical form of the product (*i.e.*, liquid glaze) airborne respirable particles would not likely be released from this product and therefore the listed forms of silica, crystalline is not relevant for the product. Cobalt, nickel and vanadium pentoxide are listed on the California Proposition 65 List as a chemical known to the State of California to

cause cancer. Warnings for the purpose of California Proposition 65 for cobalt, nickel and vanadium pentoxide are not warranted given the nature/physical form of the product (*i.e.*, liquid glaze).

**International:**

**IARC:** Crystalline silica [listed as silica dust, crystalline, in the form of quartz or cristobalite], nickel compounds and cadmium compounds are classified as Group 1, carcinogenic to humans. Lead and vanadium pentoxide are classified as Group 2B, possibly carcinogenic to humans. Cobalt [listed as cobalt(II) compounds] is classified as Group 3, not classifiable as to its carcinogenicity to humans. No other components in 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	OSHA: Occupational Safety and Health Administration
ATE: Acute Toxicity Estimate	PBT: Persistent, Bioaccumulative and Toxic
CAA: Clean Air Act	PEL: Permissible Exposure Level
CAS: Chemical Abstract Service Number	PPE: Personal Protective Equipment
CERCLA: Comprehensive Environmental Response and Liability Act	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
CWA: Clean Water Act	REL: Recommended exposure level
DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatzkonzentration	SARA: Superfund Amendment and Reauthorization Act
EC: European Commission	SDS: Safety Data Sheet
ECHA: European Chemicals Agency	TLV: Threshold limit value
GHS: Global Harmonized System	TSCA: Toxic Substances Control Act
IARC: International Agency for Research on Cancer	TWA: Time-weighted average
IMO: International Maritime Organization	UN: United Nations
N/A: Not applicable	VOC: Volatile Organic Compound
NIOSH: National Institute for Occupational Safety & Health	vPvB: very Persistent, very Bioaccumulative
NTP: National Toxicology Program	

**References:**

ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database.

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

IARC (International Agency for Research on Cancer). 2024. 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>

**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:** September 12, 2024