

# PURE BRILLIANCE GLAZES

## SAFETY DATA SHEET (SDS)

Version: 01  
Date of Issue: July 30, 2024

According to: Australia Industrial Chemical Notification and Assessment Act (INCA Act), Australian Inventory of Chemical Substances (AICS), Work Health and Safety Act (WHS Act)

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

#### 11.1 Product identifier

Product Name: Pure Brilliance Dipping, Pure Brilliance Brushing, Non-Toxic Clear, Clear.  
Product sizes: 16 fl. oz. (473 mL), 128 fl. oz. (3.78 L), 384 oz. (11.36 L).  
Other Means of Identification: None known  
Product Description: Liquid glaze formulations intended to be applied by submerging ceramic pieces into the glaze, touching up missed pieces with a fan brush, and shaving drips and runs with a palette knife. Pieces are then placed in a kiln for glaze firing.

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

Relevant identified use(s): The product is intended for general (adults) arts and crafts purposes.

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

Manufacturer/Supplier: Ceramicraft, 17 Discovery Drive  
Bibra Lake, WA 6163  
Business Phone: (08) 9418 8305  
Email: sales@ceramicraft.com.au

#### 1.4 Emergency telephone number

Emergency Telephone: Australia Poisons Information Centre (+61 13116).

### Section 2 – Hazard(s) Identification

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

According to: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 10<sup>th</sup> Revision

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

#### 2.2. Label elements

Label Pictogram: None  
Signal Word: None  
Hazard Statement: None  
Precautionary Statement: None

#### 2.3. Other hazards

- Ceramic glazes containing lead require the following warning statement: CAUTION – Harmful if swallowed. Do not use on surfaces which contact food or drink.
- 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 Mixture

Chemical Name	CAS No.	EC No.	% By Weight	GHS Hazards
Zinc pyriithione	13463-41-7	236-671-3	up to 0.0081%	H301: Acute toxicity - oral (Category 3); H318: Eye damage (Category 1); H330: Acute toxicity – inhalation (Category 2); H372: Specific target organ toxicity (repeated exposure, Category 1); H360D: Reproductive toxicity (Category 1B) (May damage the unborn child); 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	up to 0.726%	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.

The product may contain crystalline silica (CAS No. 1333-86-4) 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. If eye irritation persists, contact medical advise/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:** 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:** No specific precautions required. Keep unauthorized personnel away.

### 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

N/A – Not applicable  
 R – Measured as respirable fractions of the aerosol

## 8.2 Exposure Controls:

### 8.2.1 Appropriate engineering controls

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

### 8.2.2 Personal Protective Equipment

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

- Respiratory:** Under normal conditions of use, a 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.
- Eyes/Face:** If contact is likely, safety glasses with side shields are recommended.
- Hands:** Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.
- Body/Skin:** Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.
- Thermal Hazards:** None known.
- Hygiene measures:** Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

### 8.2.3 Environmental exposure control

Avoid release to the environment. Refer to Section 6.2 - Environmental precautions and Section 13 - Disposal Considerations for further information.

## 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</b>	
<b>Color:</b>	See Section 1.1	<b>n-octanol/water:</b>	Not available
<b>Odor/Odor threshold:</b>	None	<b>Auto-ignition temperature:</b>	Not available
<b>pH (as supplied):</b>	7 - 8	<b>Decomposition temperature:</b>	Not available
<b>Melting/freezing point:</b>	32°F	<b>Dynamic viscosity:</b>	Not available
<b>Boiling point/range:</b>	212°F	<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>	1.1 - 1.3	<b>VOC:</b>	Not available
<b>Relative density:</b>	Not available	<b>Particle size range:</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. Information on hazard classes:

**Likely routes of exposure:** Skin contact, incidental ingestion.

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

<b>Acute oral toxicity:</b>	Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute oral toxicity (Category 3); however, product classification is not warranted based on the concentration of zinc pyrithione in the product and given the product ATE >2000 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>	Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute inhalation toxicity (Category 2); however, product classification is not warranted based on the concentration of zinc pyrithione in the product and given that the product ATE is >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>	Zinc pyrithione (CAS No. 13463-41-7) has been classified for eye damage (Category 1); however, product classification is not required based on the concentration of pyrithione zinc in the product. The other 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.e.*, 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.

**Reproductive Toxicity:**

Zinc pyrithione (CAS No. 13463-41-7) has been classified for reproductive toxicity (Category 1B; may damage fertility or the unborn child). Product classification is not warranted for reproductive toxicity given the concentration of zinc pyrithione in the product. The other ingredients >0.1% in the product are not reproductive toxicants based on human and/or animal studies.

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

The 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). Zinc pyrithione (CAS No. 13463-41-7) has been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to lungs through prolonged or repeated exposure). Product classification is not warranted for specific target organ toxicity given the concentration of zinc pyrithione in the product. 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.

**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). 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 the WHS Act. Based on the criteria outlined in the 10th revision of the GHS, product classification for acute aquatic toxicity (Category 2).

Chemical Name	CAS No.	Species	Value
Zinc pyrithione <sup>a</sup>	13463-41-7	<i>Pimephales promelas</i>	LC <sub>50</sub> (96h): 0.0026 mg/L NOEC (96h): 0.011 mg/L
		<i>Daphnia magna</i>	LC <sub>50</sub> (48h): 0.0082 mg/L NOEC (48h): 0.011 mg/L
		<i>Selenastrum capricornutum</i>	EC <sub>50</sub> (120h): 0.028mg/L NOEC (120h): 0.0078 mg/L

<sup>a</sup> According to Regulation (EC) No. 1272/2008 (CLP), M=1000 for acute aquatic effects and M=10 for chronic aquatic effects.

## 12.2 Persistence and degradability

Zinc pyriithione (CAS No. 13463-41-7) is not persistent and rapidly degrades in water and the anaerobic sediment layer. No data available for the other ingredients in the product.

## 12.3 Bioaccumulative potential

Zinc pyriithione (CAS No. 13463-41-7) is unlikely to bioaccumulate in aquatic species, either directly or through the food chain. The estimated log  $K_{ow}$  is -0.99. No data available for the other ingredients in the product.

## 12.4 Mobility in Soil

Zinc pyriithione (CAS No. 13463-41-7) is slightly ( $K_{oc}=784$ ) or very slightly ( $K_{oc}=2347$ ) mobile in soils and very slightly mobile ( $K_{oc}=3597-10633$ ) in sediments. 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). 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. Waste should not be disposed of by release to sewers. Dispose of waste in accordance with local, regional, national, and/or international regulations.

**Contaminated Packaging:** Container packaging is not expected to exhibit hazards.

## Section 14 – Transport Information

**Note:** This product is not regulated as dangerous goods for transport. Review classification requirements before shipping materials at elevated temperatures.

14.1 UN number	Not 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**.

**Australia:**

**Australian Inventory of Chemical Substances (AICS):** The ingredients in this product can be imported without notification.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (as amended):** Zinc pyrithione (CAS No. 13463-41-7) and methanol (CAS No. 67-56-1) are listed under Schedule 5 and Schedule 6. Given the concentration present in the product these restrictions do not apply. Lead is listed under Schedule 6 and Schedule 10. Given the nature of the product (*i.e.*, ceramic glazes), the following warning statement may apply to some or all colors of the product line: **“CAUTION – Harmful if swallowed. Do not use on surfaces which contact food or drink”**. The other ingredients in the product are not listed in the SUSMP.

**Agricultural and Veterinary Chemicals Act 1994:** The product is not intended for agricultural or veterinary use.

**Prohibition / Licensing Requirements:** There are no applicable prohibition or notification / licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

**International:**

**IARC:** Crystalline silica [listed as silica dust, crystalline, in the form of quartz or cristobalite (CAS No. 14808-60-7)] is classified as Group 1, carcinogenic to humans. Lead is classified as Group 2B, possibly carcinogenic to humans. Wollastonite (CAS No. 13983-17-0) is classified as Group 3, not classifiable as to its carcinogenicity to humans. No other ingredients in this product are classified with respect to carcinogenicity.

The product does not contain chemicals listed in the following agreements: Montreal Protocol (Ozone depleting substances), The Stockholm Convention (Persistent Organic Pollutants), The Rotterdam Convention (Prior Informed Consent), Basel Convention (Hazardous Waste), International Convention for the Prevention of Pollution from Ships (MARPOL).

**15.2 Chemical Safety Assessment**

- None available for the ingredients in this product.

**Section 16 – Other Information**

**List of acronyms and abbreviations:**

AICS: Australian Inventory of Chemical Substances	NTP: National Toxicology Program
AICIS: Australian Industrial Chemicals Introduction Scheme	PBT: Persistent, Bioaccumulative and Toxic
ACGIH: American Conference of Governmental Industrial Hygienists	PPE: Personal Protective Equipment
ATE: Acute Toxicity Estimate	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
CAS: Chemical Abstract Service Number	SDS: Safety Data Sheet
DFG: German Research Foundation	SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons
ECHA: European Chemicals Agency	TLV: Threshold limit value
GHS: Globally Harmonized System	TWA: Time Weighted Average (8-hour)
IBC: International Bulk Chemical	UN: United Nations
IARC: International Agency for Research on Cancer	VOC: Volatile Organic Compound
IMAP: Inventory Multi-tiered Assessment and Prioritization	vPvB: very Persistent, very Bioaccumulative
MARPOL: Maritime Pollution	WHS: Work Health and Safety Act
NIOSH: National Institute for Occupational Safety & Health	

**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:** July 30, 2024