



JUNGLE GEMS GLAZES

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: June 26, 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

1.1 Product identifier

Product Name: JUNGLE GEMS GLAZES

Product Colors: MARDI GRAS (CG1000), GOGH IRIS (CG1001), DAY LILY (CG1002), PEACH PARTY (CG1003), BERRY TART (CG1004), MAROON LAGOON (CG1005), PURPLE REIGN (CG1006), BLUEBERRY BUBBLEGUM (CG1007), BLUE GUPPY (CG1008), CHERRY LIMEADE (CG1009), BLUE CAPRICE (CG718), SEAWIND (CG722), NOEL (CG750), SASSY ORANGE (CG753), FIRECRACKER (CG756), BLACK OPAL (CG779), MYSTIC JADE (CG780), STRAWBERRY SUNDAE (CG783), ROYAL FANTASY (CG785), OBSIDIAN (CG786), DUTCH ENAMELWARE (CG788), YADRO PRINT (CG795), BLACK IRIS (CG798), WILDFIRE (CG954), LAGOON BLUE (CG958), LEMON LIME (CG963), KALEIDOSCOPE (CG964), MOCHA MARBLE (CG965), PEPPERMINT TWIST (CG968), FLORAL FANTASY (CG969), MASQUERADE (CG970), DRAGON'S BREATH (CG972), BLOOMIN' BLUE (CG974), INK SPOTS (CG977), CORAL PUFF (CG980), FRUITY FRECKLES (CG981), KOI POND (CG983), LADYBUG (CG984), MONET'S POND (CG985), SMOKE AND FIRE (CG986), TREE FROG (CG987), STARRY NIGHT (CG990), MOUNTAIN MOSS (CG991), LAVENDER SPRIGS (CG993), FIELD AND FLOWERS (CG994), SEAFOAM (CG997), PINK PIXIE (CG998), JAZZ NOTES (CG999), PEACOCK EYES (S2701), NORTHERN LIGHTS (S2702), BERRYBERRY PIE (S2703), PLUM JELLY (S2704), ORIENTAL CARMEL (S2708), CAPPUCCHINO MINT (S2709), TAHITI GRAPE (S2711), MONSOON SEAS (S2712), HERB GARDEN (S2714), SPOTTED KIWI (S2715), CELESTIAL BLUE (S2716), COSMIC BLACK (S2718), GRAPE DIVINE (S2723), LOTUS BLOSSOM (S2724), SAFARI (S2725), CHEETAH (S2726), POPPY FIELDS (S2727), CITRUS SPLASH (S2729), KABOOM (S2731)

Product sizes: 4 fl. oz. (118 ml), 16 fl. oz. (473 mL)

Other Means of Identification: None known

Product Description: Coloured liquid glaze formulations intended to be applied using a brush and 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: Coloramics, LLC
4077 Weaver Court South
Hilliard, OH 43026 USA

Business Phone: +1 (614) 876-1171

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: Globally Harmonized System (GHS) of Classification and Labelling of Chemicals

Physical	Health	Environmental ^{a, b}
Not classified	Not classified	H412: Chronic aquatic toxicity (Category 3)

^a Environmental hazards are outside the scope of the WHS Act; therefore, product classification for chronic aquatic toxicity (Category 3) is not mandatory.

^b This SDS applies to the product line, as such the environmental classifications listed do not pertain to all colors. It should be noted that some colors may present environmental concerns to a lesser degree (*i.e.*, Category 4).

2.2. Label elements

Label Pictogram: None required

Signal Word: None required

Hazard statement & Precautions:

Chronic aquatic toxicity (Category 3) (H412)^a

Harmful to aquatic life with long lasting effects.

P237: Avoid release to the environment.

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

^a Environmental hazards are outside the scope of the WHS Act; therefore, product classification for chronic aquatic toxicity (Category 3) is not mandatory.

Supplemental Hazard Information: 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 Substance

The product is a mixture and not a substance.

3.2 Mixture

Chemical Name	CAS No.	EC No.	% Concentration ^{a, b}	GHS Hazards
Zinc oxide	1314-13-2	215-222-5	≤ 2.5237%	H371: Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract irritation); H400: Acute aquatic toxicity (Category 1); H410: Chronic aquatic toxicity (Category 1)
Zinc pyrrhione	13463-41-7	236-671-3	≤ 0.0067%	H301: Acute oral toxicity (Category 3); H318: Eye damage (Category 1); H330: Acute inhalation toxicity (Category 2); 372: Specific target organ toxicity (repeated exposure, Category 1); H360D: Reproductive toxicity (Category 1B) (May damage the unborn child) H400: Acute aquatic toxicity (Category 1); H410: Chronic aquatic toxicity (Category 1)

Crystalline silica	14808-60-7	238-878-4	≤ 7.9964%	H350: Carcinogenicity (Category 1A) (inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1 - lungs)
Titanium dioxide	13463-67-7	236-675-5	≤ 0.8801%	H351: Carcinogenicity (Category 2) (inhalation)
Cobalt (II, III) oxide	1308-06-1	215-157-2	≤ 2.5214%	H334: Respiratory sensitization (Category 1B); H412: Chronic aquatic toxicity (Category 3)
Sodium carbonate	497-19-8	207-838-8	≤ 7.5808%	H319: Eye irritation (Category 2)
Boron oxide ^c	1303-86-2	215-125-8	≤ 1.8355%	H360FD: Reproductive toxicity (Category 1B) (May damage fertility and the unborn child)
Nickel oxide	1313-99-1	215-215-7	≤ 0.1681%	H317: Skin sensitization (Category 1); H372: Specific target organ toxicity (repeated exposure, Category 1 - lungs); H350: Carcinogenicity (Category 1A) (inhalation); H413: Chronic aquatic toxicity (Category 4)

^a Concentrations are calculated as a maximum across all colors, rather than by color.

^b Concentrations listed are a sum of the concentration of the chemical in liquid and crystal form. The hazards corresponding to each chemical may not apply to the crystal form of the chemical as it is not bioavailable.

^c Boron oxide 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 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.

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 titanium dioxide (CAS No. 13463-67-7) and crystalline silica (CAS No. 14808-60-7) 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. Collect spillage. 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 MAK TWA
Zinc oxide, dust & fume	1314-13-2	2 mg/m ³ ^a	5mg/m ³	5 mg/m ³	0.1 mg/m ³ R
Silica, crystalline, mixed respirable (quartz, cristobalite, tridymite)	14808-60-7	0.025 mg/m ³ ^a	0.05 mg/m ³	0.05 mg/m ³	N/A
Titanium dioxide	13463-67-7	10 mg/m ³ ^a	15 mg/m ³ ^b	N/A	0.3 mg/m ³ R ^c
Boron oxide	1303-86-2	N/A	15 mg/m ³ ^b	10 mg/m ³	N/A
N/A – Not applicable			^a Respirable particulate matter		
R – Measured as respirable fractions of the aerosol			^b Total dust		
			^c Multiplied with the material density		

Note: Titanium dioxide (CAS No. 13463-67-7) values listed above are related to non-ultrafine and non-nanoscale or finescale particles.

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.

Respiratory:	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.
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.
Environmental Exposure Controls:	Not available.
Hygiene measures:	Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

Appearance: Physical state: Color: Odor/Odor threshold:	Liquid See Section 1.1 None	Partition Coefficient n-octanol/water: Auto-ignition temperature:	Not available Not available
pH (as supplied):	8.0 – 9.0	Decomposition temperature:	Not available
Melting/freezing point:	32°F	Dynamic viscosity:	Not available
Boiling point/range:	212°F	Molecular weight:	Not available
Flash point:	Not available	Taste:	Not available
Evaporation rate:	Not available	Explosive properties:	Not available
Flammability:	Not available	Oxidizing properties:	Not available
Upper/lower explosive limits:	Not available	Surface tension:	Not available
Vapor pressure:	Not available	Volatile component:	Not available
Water solubility:	Not available	Gas group:	Not available
Vapor density (Air = 1):	Not available	pH (as solution):	Not available
Specific gravity (Water = 1):	Not available	VOC:	Not available
Relative density:	Not available	Particle size range:	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

Likely routes of exposure: Skin contact, incidental ingestion.

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

Acute oral toxicity:	Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute oral toxicity (Category 3). Product classification is not warranted based on the concentration of the hazardous ingredients in the product and given that the product ATE is >5000 mg/kg.
Acute dermal toxicity:	The product is practically non-toxic based on human and/or animal studies. The dermal ATE for the whole product is >5000 mg/kg.
Acute inhalation toxicity:	Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute inhalation toxicity (Category 2). 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).
Skin corrosion/irritation:	The ingredients >1% in the product are not skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	Zinc pyrithione (CAS No. 13463-41-7) has been classified for eye damage (Category 1) and sodium carbonate (CAS No. 497-19-8) has been classified for eye irritation (Category 2). Product classification is not warranted based on the concentration of the hazardous ingredients and a review of available data. The other ingredients >1% in the product are not eye irritants based on human and/or animal studies.
Respiratory or skin sensitization:	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). Nickel oxide (CAS No. 1313-99-1) has been classified for skin sensitization (Category 1). Product classification is not warranted for skin sensitization given a review of available data. The other ingredients >0.1% in the product are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	The ingredients >0.1% in the product are not mutagenic based on human and/or animal studies.
Carcinogenicity:	Crystalline silica (airborne, unbound particles of respirable size) (CAS No. 14808-60-7) has been classified for carcinogenicity (Category 1). Titanium dioxide (CAS No. 13463-67-7) (airborne, unbound particles of respirable size) has been classified for carcinogenicity (Category 2). Nickel oxide (CAS No. 1313-99-1) has been classified for carcinogenicity (Category 1A). Crystalline silica (listed as silica dust, crystalline, in the form of quartz or cristobalite) is listed as a Group 1 carcinogen by IARC. Titanium dioxide is listed as a Group 2B carcinogen by IARC. Nickel oxide (listed as nickel compounds) is listed as a Group 1 carcinogen by IARC. Crystalline silica [listed as silica, crystalline (respirable size) / silica, crystalline — α -quartz and cristobalite], titanium dioxide, and nickel oxide (listed as nickel compounds and metallic nickel / nickel and inorganic compounds, including nickel subsulfide) are also listed as carcinogens by 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). It was assumed that the glaze will not be sanded after it has been fired in the kiln. 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 the unborn child). Product classification is not warranted for this effect given the concentration of zinc pyrithione in the product. Boron oxide (CAS No. 1303-86-2) has been classified for reproductive toxicity (Category 1B; May damage fertility and the unborn child). Product classification is not warranted given that the boron oxide 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 >0.1% in the product are not reproductive toxicants based on human and/or animal studies.

Specific target organ toxicity (single exposure):

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. 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) and nickel oxide (CAS No. 1313-99-1) have been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to the lungs through prolonged or repeated exposure). Product classification is not warranted for specific target organ toxicity based on a review of available data and the nature/physical form of the product (*i.e.*, liquid glaze). It was assumed that the glaze will not be sanded after it has been fired in the kiln. Zinc pyrithione (CAS No. 13463-41-7) has been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to the organs 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.

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, the product is classified for acute and chronic aquatic toxicity (Category 3).

Chemical Name ^a	CAS No.	Species	Value
Zinc oxide	1314-13-2	<i>Danio rerio</i>	LC ₅₀ (96h): 1.55 mg/L (bulk ZnO) nominal EC ₅₀ (84h): 2.066 mg/L (bulk ZnO) nominal
		<i>Daphnia magna</i>	EC ₅₀ (48h): > 5 - < 16.2 mg/L (bulk ZnO) nominal
		<i>Daphnia magna</i>	EC ₅₀ (48h): >1.4 - <2.5 mg/L nominal
		Freshwater Alga and Cyanobacteria	EC ₁₀ (72h): 0.42 mg/L nominal

Zinc pyrithione ^b	13463-41-7	<i>Pimephales promelas</i>	LC ₅₀ (96h): 0.0026 mg/L NOEC (96h): 0.0011 mg/L
		<i>Daphnia magna</i>	LC ₅₀ (48h): 0.0082 mg/L NOEC (48h): 0.0011 mg/L
		<i>Selenastrum capricornutum</i>	EC ₅₀ (120h): 0.028mg/L NOEC (120h): 0.0078 mg/L
Cobalt (II, III) oxide	1308-06-1	<i>Oncorhynchus mykiss</i>	LC ₅₀ : 0.8 mg Co/L
		<i>Danio rerio</i>	LC ₅₀ : 85 mg Co/L
		<i>Cladoceran</i>	LC ₅₀ : 0.61 mg Co/L
		<i>Lemna minor</i>	EC ₅₀ : 52 µg/L
Nickel oxide	1313-99-1	<i>Pimephales promelas</i>	LC ₅₀ (96h): 0.4 mg Ni/L
		<i>Brachydanio rerio</i>	LC ₅₀ (96h): 320 mg Ni/L
		<i>Ceriodaphnia dubia</i>	LC ₅₀ (48h): 0.013 mg Ni/L
		<i>Daphnia magna</i>	LC ₅₀ (48h): 4970 mg Ni/
		Chlamydomonas species	NOEC/EC ₁₀ : 12.3 µg/L
		Anacystis nidulans	NOEC/EC ₁₀ : 425 µg/L

^a The aquatic hazards corresponding to each chemical may not apply to the crystal form of the chemical as it is not bioavailable.

^b 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 pyrithione (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 pyrithione (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.
- 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

- Zinc oxide (CAS No. 1314-13-2) has a mean K_d of 3.3 L/kg (mean of all five soils for bulk ZnO).
- Zinc pyrithione (CAS No. 13463-41-7) is slightly (K_{oc}=784) or very slightly (K_d=2347) mobile in soils and very slightly mobile (K_{oc}=3597-10633) in sediments.
- Nickel oxide (CAS No. 1313-99-1) has a log K_p (soil) of 2.86.
- 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 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 not regulated as dangerous goods for transport.

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

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): Nepheline syenite (CAS No. 37244-96-5), sapphire (CAS No. 1317-82-4), vanadium (CAS No. 1314-34-7), and 2,3,7,8 TCDD (CAS No. 1746-01-6) are not listed in AICS. All other 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) (listed as pyrithione zinc), sodium carbonate (CAS No. 497-19-8) (listed as alkaline salts), iron (CAS No. 7439-89-6) (listed as iron compounds), cupric oxide (CAS No. 1317-38-0) (listed copper oxides), and cuprous oxide (CAS No. 1317-39-1) (listed copper oxides) are listed under Schedule 5 (Caution) and Schedule 6 (Poisons). Given the concentration present in the product, these restrictions do not apply. Cadmium (listed as cadmium compounds) is listed under Schedule 6 (Poisons). Given the concentration present in the product, this restriction does not apply. Arsenic is listed under Schedule 6 (Poisons) and Schedule 7 (Dangerous poisons). Given the concentration present in the product, these restrictions do not apply. Mercury is listed under Schedule 7 (Dangerous poisons). Given the concentration present in the product, this restriction does not apply. Methanol (CAS No. 67-56-1) is listed under Schedule 5 (Caution), Schedule 6 (Poisons), and Schedule 10 (Substances of such danger to health as to warrant prohibition of supply and use). Given the concentration present in the product, these restrictions do not apply. Lead (listed as lead compounds) is listed under Schedule 6 (Poisons) and Schedule 10 (Substances of such danger to health as to warrant prohibition of supply and use). 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 (CAS No. 14808-60-7) (listed as silica dust, crystalline, in the form of quartz or cristobalite), 2,3,7,8 TCDD (CAS No. 1746-01-6) (listed as 2,3,7,8-Tetrachlorodibenzo-para-dioxin), arsenic (listed as arsenic and inorganic arsenic compounds), cadmium (listed as cadmium and cadmium compounds), chromium [listed as chromium (VI) compounds], and nickel compounds are listed as Group 1, carcinogenic to humans. Cobalt is listed as Group 2A, probably carcinogenic to humans. Titanium dioxide (CAS No. 13463-67-7) and lead are listed as Group 2B, possibly carcinogenic to humans. Red iron oxide (CAS No. 1309-37-1) (listed as ferric oxide), cobalt (II,III) oxide (CAS No. 1308-06-1), silicon dioxide (CAS No. 7631-86-9) (listed as silica, amorphous), chromium (listed as chromium (III) compounds), and mercury (listed as mercury and inorganic mercury compounds) are listed as Group 3, unclassifiable as to carcinogenicity in humans. No other ingredients in this product are classified with respect to carcinogenicity.

15.2 Chemical Safety Assessment

- None available for the ingredients in this product.

Section 16 – Other Information**List of acronyms and abbreviations:**

ADR: Accord relatif au transport international des marchandises Dangereuses par Route	PBT: Persistent, Bioaccumulative and Toxic
AICS: Australian Inventory of Chemical Substances	PEL: Permissible Exposure Level
AICIS: Australian Industrial Chemicals Introduction Scheme	PPE: Personal Protective Equipment
ACGIH: American Conference of Governmental Industrial Hygienists	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
ATE: Acute Toxicity Estimate	REL: Recommended exposure level
CAS: Chemical Abstract Service Number	SDS: Safety Data Sheet
DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatzkonzentration	SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons
EC: European Commission	REL: Recommended exposure level
ECHA: European Chemicals Agency	SDS: Safety Data Sheet
GHS: Global Harmonized System	TLV: Threshold limit value
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	WHS: Work Health and Safety Act
OSHA: Occupational Safety and Health Administration	

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: June 26, 2024