

FOUNDATIONS GLAZES

SAFETY DATA SHEET (SDS)

Version: 01

Date of Issue: June 20, 2024

According to: Regulation UK SI 2019/758

Regulation UK SI 2020/1577

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

1.1 Product identifier

Product Name: Foundations Glazes

Product Colors: White, Yellow, Orange, Red, Pink, Blue, Green, Brown, Black, Tree Green, Light

Blue, Lavender, Light Yellow, Antique White, Brick Red, Harvest Orange, Purple, Bright Blue, Dark Blue, Medium Green, Olive Green, Tan, Cinnamon, Gray,

Raspberry Whip, Glade Green, Wisteria Purple, Rich Chocolate, Corn Flower Blue, Canton Jade, Mediterranean Teal, Big Blue Sky, Deep Red, Grape, Chartreuse, Sand, Light Gray, Pumpkin, Medium Blue, Teal Blue, Bright Jade, Yellow Orange, Taupe, Sage, Light Pink, Bright Pink, Flamingo, Strawberry, Tangerine, Mint, Pistachio, Golden Clear, Yadro, Dry Champagne, Mudpuddle Brown, Saddle Tan, Orange Slice, Crystal Coral, Floral Pink, Sheer Blue, Blue Diamond, Saffire Blue, Pastel Jade, Sea Glass, Sooty Gray, Milk Glass, Poppy, Clearly Jade, Marshmallow White, Ivory Cream, Black Velvet, Sun Yellow, Ruby Red, Royal Purple, Celadon, Miami Pink, Light Turquoise, Royal Blue, Spiced Cream, Pumpkin Orange, Bubble Gum, Heather, Periwinkle, Green Apple, Cashmere, Mushroom, Amethyst, Ivory

Speck

Product sizes: 4 oz, 16 oz

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: Mayco Colors

4077 Weaver Court South Hilliard, OH 43026 USA

Business Phone: 614-876-1171

Email: 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] as amended by GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

0. 20 101 120 4014 014 014 014 014 014 014 014 014 0				
	Health	Environment*	Physical	
Classification:	Not classified	Not classified	Not classified	

2.2. Label elements

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

Precautionary Statement: None **Supplemental Hazard Information:**

• EUH208: Contains benzisothiazol-3(2H)-one. May produce an allergic reaction.

2.3. Other hazards

 The product is not expected to meet vPvB or PBT criteria in accordance with Regulation UK SI 2019/758, Annex XIII.

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 a	GHS Hazards
Zinc pyrithione	13463-41-7	236-671-3	up to 0.014%	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)
Zinc oxide	1314-13-2	215-222-5	up to 0.72%	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	up to 1.49%	H350: Carcinogenicity (Category 1) (Inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1, lungs)
Titanium dioxide	13463-67-7	236-675-5	up to 0.17%	H351: Carcinogenicity (Category 2) (Inhalation)

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

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. 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. If irritation occurs, remove contact lenses if present and easy to do – rinse 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: 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 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: Not available.

6.2 Environmental precautions

 Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities.

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
Crystalline silica	14808-60-7	0.025 mg/m ³ R	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
Zinc oxide	1314-13-2	2 mg/m ^{3 a}	5 mg/m ³	5 mg/m ³	0.1 mg/m ³ R
N/A – Not applicable ^a Respirable particulate matter					
R – Measured as respirable fractions of the aerosol			b Total dust		
			Multiplied with tl	he 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:

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, 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 None known.

Hazards:

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.

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.

Appearance:			
Physical state:	Liquid	Partition Coefficient	
Color:	See Section 1.1	n-octanol/water:	Not available
Odor/Odor threshold:	None	Auto-ignition temperature:	Not available
pH (as supplied):	8 - 9	Decomposition temperature:	Not available
Melting/freezing point:	Not available	Dynamic viscosity:	Not available
Boiling point/range:	Not available	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

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.

Acute oral toxicity: Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute oral

toxicity (Category 3); however, product classification is not required based on the concentration of zinc pyrithione in the product and given the

product ATE >2000 mg/kg.

Acute dermal toxicity: The product is practically non-toxic based on human and/or animal

studies. Dermal ATE >2000 mg/kg.

Acute inhalation toxicity: 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).

Skin corrosion/irritation: The ingredients >1% in the product are not skin irritants based on human

and/or animal studies.

Serious eye Zinc pyrithione (CAS No. 13463-41-7) has been classified for eye damage damage/irritation: (Category 1); however, product classification is not required based on the

(Category 1); however, product classification is not required based on the concentration of zinc pyrithione 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.

Respiratory or skin

sensitization:

The 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). 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. Titanium dioxide (airborne, unbound particles of

respirable size) (CAS No. 13463-67-7) has been classified for carcinogenicity (Category 2). Titanium dioxide (airborne, unbound particles of respirable size) (CAS No. 13463-67-7) is listed as a

carcinogen by IARC 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):

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). 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

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

Acute aquatic toxicity (Categories 2 and 3) is outside the scope of Regulation UK SI 2019/758 and Regulation UK SI 2020/1577; therefore, product classification for acute aquatic toxicity (Category 2) is not mandatory.

Chemical Name	CAS No.	Species	Value
Zinc pyrithione ^a	13463-41-7	Pimephales promelas	LC ₅₀ (96h): 0.0026 mg/L
			NOEC (96h): 0.011 mg/L
		Daphnia magna	LC ₅₀ (48h): 0.0082 mg/L
			NOEC (48h): 0.011 mg/L
		Selenastrum	EC ₅₀ (120h): 0.028mg/L
		capricornutum	NOEC (120h): 0.0078 mg/L
Zinc oxide	1314-13-2		LC ₅₀ (96h): 1.793 mg/L (bulk ZnO) nominal
		Danio rerio	EC ₅₀ (84h): 2.066 mg/L (bulk ZnO)
			nominal
		Danio rerio	NOEC (32d): ≥540 μg/L nominal
		Daphnia magna	EC ₅₀ (48h): >1.4 - <2.5 mg/L nominal
		Daphnia magna	EC ₁₀ (21d): 127 μg/L nominal
			EC ₁₀ (21d): 195 μg/L nominal

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 -1.99.
- No data available for the other ingredients in the product.

12.4 Mobility in Soil

- Zinc pyrithione (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 Other adverse effects

No further data available.

Reference:

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.

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

United Kingdom

Seveso Directive (2012/18/EU): 2,3,7,8 TCDD (CAS No. 1746-01-6) is listed in Annex I, Part 2 as a named dangerous substance with an upper tier requirement of 0.001 tonnes. No other 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. 689/2008, Annex I, Parts I-III: Cadmium (listed as cadmium and its compounds) is listed in Annex I, Part 1 as a chemical subject to export notification procedure. The other ingredients in this product are not listed.

Regulation (EC) No. 850/2004, Annex I: No ingredients in this product are listed.

International:

IARC: Crystalline silica [listed as silica dust, crystalline, in the form of quartz or cristobalite (CAS No. 14808-60-7)], cadmium and cadmium compound, and 2,3,7,8 TCDD (listed as 2,3,7,8-tetrachlorodibenzo-para-dioxinare) (CAS No. 1746-01-6) are classified as Group 1, carcinogenic to humans. Nitrilotriacetic acid (CAS No. 139-13-9), titanium dioxide (CAS No. 13463-67-7), and lead are classified as Group 2B, possibly carcinogenic to humans. Hematite (CAS No. 1317-60-8) and cobalt [listed as cobalt(II) compounds] are classified as Group 3, not classifiable as to its carcinogenicity to 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:

ACGIH: American conference of Governmental Hygenists	OSHA: Occupational Safety and Health Administration
CAS: Chemical Abstract Service Number	PBT: Persistent, Bioaccumulative and Toxic
CLP: Classification, Labelling and Packaging Regulation (EC) No. 1272/2008	PEL: Permissible Exposure Level
EC: European Commission	PPE: Personal Protective Equipment
ECHA: European Chemicals Agency	REACH: Registration, Evaluation, Authorisation and
	Restriction of Chemicals
IBC: International Bulk Chemical	REL: Recommended exposure level
GHS: Global Harmonized System	SDS: Safety Data Sheet
IARC: International Agency for Research on Cancer	TLV: Threshold limit value
MARPOL: Maritime Pollution	TWA: Time-weighted average
NIOSH: National Institute for Occupational Safety & Health	UN: United Nations
NTP: National Toxicology Program	vPvB: very Persistent, very Bioaccumulative

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.

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