

Astro Gems Textural Glazes

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: June 30, 2023

According to: Regulation (EC) No. 1272/2008
Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Product Name: Astro Gems Textural Glazes
Product Colours: White Opal AS510, Black Diamond AS512, Golden Sand AS513
Product Sizes: 4 fl. oz. (118.3 mL)
Other Means of Identification
Unique Formula Identifier: Not required as the product does not pose human health concerns.
Other: 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

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]

	Physical	Health	Environment
Classification(s)	Not classified	Not classified	H401: Hazardous to the aquatic environment - short term (acute) hazard (Category 2)
SCL and/or M-factor	N/A	N/A	N/A
Classification Procedure	Weight of evidence	Weight of evidence	Weight of evidence

2.2. Label elements

Label Pictogram: None required.

Signal Word: Warning

Hazard statements:

Colors: All

- EUH208: Contains 1,2-benzisothiazolin-3-one (CAS No. 2634-33-5). May produce an allergic reaction.

**Acute aquatic toxicity
(Category 2) (H401)**

Toxic to aquatic life.

P273: Avoid release to the environment.

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

2.3. Other hazards

- This product is not expected to be endocrine disrupting.
- This product is not expected to meet the criteria for vPvB or PBT in accordance with Regulation (EC) No. 1907/2006, Annex XIII.
- 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 ^a	GHS Hazards
Zinc pyrithione	13463-41-7	236-671-3	up to 0.0091%	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) H401: Acute aquatic toxicity (Category 1); H411: Chronic aquatic toxicity (Category 1)

^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.

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

	Specific Concentration Limit	Multiplying-Factor	Acute Toxicity Estimate
Astro Gems Textural Glazes	N/A	N/A	>2000 mg/kg (oral/dermal) >20 mg/L (inhalation)

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: Not available.

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**.

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. See **Section 1 - Identification of the Substance/Mixture and of the Company/Undertaking** for additional information.

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:	Liquid		
Colour:	See Section 1.1	Partition Coefficient n-octanol/water:	Not available
Odour/Odour threshold:	Not available	pH (as supplied):	8 - 9
Melting/freezing point:	32°F	Solubility:	Not available
Boiling point and boiling range:	100°F	Kinematic viscosity:	Not available
Flammability:	Not available	Vapour pressure:	Not available
Upper/lower explosive limits:	Not available	Density:	Not available
Flash point:	Not available	Relative vapour density	Not available
Auto-ignition temperature:	Not available	Particle characteristics:	Not available
Decomposition temperature:	Not available		

9.2.1 Information with Regard to Physical Hazard Classes

Explosives	Not available
Flammable gases	Not available
Aerosols	Not available
Oxidising gases	Not available
Gases under pressure	Not available
Flammable liquids	Not available
Flammable solids	Not available
Self-reactive substances and mixtures	Not available
Pyrophoric liquids	Not available
Pyrophoric solids	Not available
Self-heating substances and mixtures	Not available
Substances and mixtures, which emit flammable gases in contact with water	Not available
Oxidising liquids	Not available
Oxidizing solids	Not available
Organic peroxides	Not available
Corrosive to metals	Not available
Desensitised explosives	Not available

9.2.2 Other Safety Characteristics

Mechanical sensitivity	None
Self-accelerating polymerisation temperature	Not available
Formation of explosible dust/air mixtures	None
Acid/alkaline reserve; (e) evaporation rate	None
Miscibility	Not available
Conductivity	Not available
Corrosiveness	Not available
Gas group	Not available
Redox potential	Not available
Radical formation potential	Not available
Photocatalytic properties	Not available

Section 10 – Stability and Reactivity

10.1 Reactivity

- This material is not considered to be reactive under normal handling and storage conditions.

10.2 Chemical stability

- This material is considered stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

- Not expected to occur under normal handling and storage conditions.

10.4 Conditions to avoid

- Exposure to high temperatures
- Strong acids
- Strong bases
- Strong oxidisers

10.5 Incompatible materials

- Strong acids
- Strong bases
- Strong 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.

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

Acute oral toxicity:	The product is practically non-toxic based on available animal and human use data. Oral ATE >2000 mg/kg
Acute dermal toxicity:	The product is practically non-toxic based on available animal and human use data. Dermal ATE >2000 mg/kg
Acute inhalation toxicity:	The product is practically nontoxic based on available animal and human use data.
Skin corrosion/irritation:	The components >1% of this product are not corrosive to the skin or skin irritants based on human and/or animal studies.
Serious eye damage/irritation:	The components of this product >1% are not damaging to the eyes or eye irritants based on available human and/or animal studies.
Respiratory or skin sensitization:	Although the concentration of 1,2-benzisothiazolin-3-one (CAS No. 2634-33-5) does not exceed the classification threshold, the following supplemental labelling is required: <i>EUH208: Contains 1,2-benzisothiazolin-3-one (CAS No. 2634-33-5). May cause an allergic reaction.</i> The other components of this product are not skin sensitizing based on human and/or animal studies.

Mutagenicity:	The components in the product >0.1% are not mutagenic based on animal studies or no data identified for the components in this product.
Carcinogenicity:	The components in the product >0.1% are not carcinogenic based on animal studies or no data identified for the components in this product.
Reproductive Toxicity:	The components in the product >0.1% are not reproductive toxicants based on animal studies or no data identified for the components in this product.
Specific target organ toxicity (single exposure):	The components in the product >1% are not specific target organ toxicity (single exposure) toxicants based on animal studies or no data identified for the components in this product.
Specific target organ toxicity (repeated exposure):	The components in this product >1% are not repeated exposure specific target organ toxicity hazards based on available information, human and/or animal studies.
Aspiration hazard:	The components in the product >1% are not aspiration hazards based on animal studies or no data identified for the components in this product.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

- This product is not expected to be endocrine disrupting

11.2.2 Information on other hazards

- No other hazards to note.

References:

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

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

IARC (International Agency for Research on Cancer). 2023. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>

NTP (National Toxicology Program). 2023. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: Official Journal of the European Union. 2008. Regulation (EC) No 1272/2008.

<http://data.europa.eu/eli/reg/2008/1272/2022-03-01>

U.S. Department of Health and Human Services, Public Health Service. <https://ntp.niehs.nih.gov/go/roc14>

Section 12 – Ecological Information

12.1 Toxicity

- Product is classified for acute aquatic toxicity (Category 2).

Chemical Name	CAS No.	Species	Value
Zinc pyrethrin	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
		<i>Selenastrum capricornutum</i>	EC ₅₀ (120h): 0.028mg/L NOEC (120h): 0.0078 mg/L

12.2 Persistence and degradability

- No data available for the other components of the product.

12.3 Bioaccumulative potential

- No data available.

12.4 Mobility in Soil

- No data available.

12.5 Results of PBT and vPvB assessment

- No data available.

12.6 Endocrine disrupting properties

- This product is not expected to be endocrine disrupting.

12.7 Other adverse effects

- No further data available.

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.

14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es):	9
14.4 Packing group	III
14.5 Environmental hazards	Acute
14.6 Special precautions for user	274, 335, 601
14.7 Maritime transport in bulk according to IMO instruments	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**.

European Union

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

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

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

Regulation (EU) No. 2019/1021, Annex I: No components in this product are listed.

Germany:

Wassergefährdungsklasse (water hazard class): WGK 1 – Schwach wassergefährdend (low hazard to waters)

International:

IARC: Crystalline silica [listed as silica dust, crystalline, in the form of quartz or cristobalite (CAS No. 14808-60-7)] is listed as Group 1, carcinogenic to humans. Titanium (CAS No. 13463 67 7) (listed as titanium dioxide), cobalt (CAS No. 7440-48-4), nickel (CAS No. 7440-02-0), and chromium are classified as Group 2B, possibly carcinogenic to humans. Crystalline silica (CAS No. 7631-86-9) (listed as silica, amorphous) 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

An **AP (Approved Product)** label is appropriate for this product. The product, *Astro Gems Textural Glazes*, is safe and is certified to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.



List of acronyms and abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists	M-factor: Multiplying factor
ATE: Acute Toxicity Estimate	N/A: Not applicable
CAS: Chemical Abstract Service Number	NIOSH: National Institute for Occupational Safety & Health
CLP: Classification, Labelling and Packaging Regulation (EC) No. 1272/2008	NOEC: No observed effect concentration
DFG: German Research Foundation	NTP: National Toxicology Program
EC: European Commission	PBT: Persistent, Bioaccumulative and Toxic
ECHA: European Chemicals Agency	PPE: Personal Protective Equipment
EC ₁₀ : Concentration causing a predetermined effect to 10% of the population	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
EC ₅₀ : Concentration causing a predetermined effect to 50% of the population	SCL: Specific Concentration Limit
EU: European Union	SDS: Safety Data Sheet
GHS: Globally Harmonized System	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TWA: Time Weighted Average (8-hour)
IMO: International Maritime Organization	UN: United Nations
LC ₅₀ : Lethal concentration to 50% of the population	vPvB: very Persistent, very Bioaccumulative
MAK: Maximale Arbeitsplatzkonzentration (maximum workplace concentration)	WGK: Wassergefährdungsklasse (water hazard class)

References:

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

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

IARC (International Agency for Research on Cancer). 2023. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>

NTP (National Toxicology Program). 2023. 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/roc14>

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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