

# MSDS SHEET #2 Ceramic Glazes Lead & Cadmium

## SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Prepared: November 25, 2006

Supersedes: All previous

Manufacturer: Mayco Colors

Division of Coloramics, LLC  
4077 Weaver Court South  
Hilliard, Ohio 43026  
United States of America

### Distributor Contacts:

USA \_\_\_\_\_ Local Phone \_\_\_\_\_  
EC \_\_\_\_\_ Local Phone \_\_\_\_\_  
Australia \_\_\_\_\_ Local Phone \_\_\_\_\_

### IN CASE OF EMERGENCY PLEASE CONTACT YOUR LOCAL POISON CONTROL CENTER

Prepared by: MSDS department

Information Telephone Number: 614-876-1171

### Ceramic Glaze (s):

Bisque Glazes BG-600, BG-642, BG-643, BG-644, G-3001, G-3002, UG-151

Jungle Gem Crystal Glazes CG-753, CG-756

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS.

Ingredients	CAS	ACGIH TLV	OSHA PEL
Lead Cadmium Frit	65997-18-4	Lead .15mg/m3	Lead .05mg/m3
Cadmium Pigments	12656-57-4 & 58339-34-7	Cadmium .01mg/m3	.2mg/m3
Bentonite	1302-78-9	N/A	N/A
Water	7732-18-5	N/A	N/A
Silica	14808-60-7	0.10mg/M3	0.10mg/M3

## SECTION 3: HAZARDS IDENTIFICATION

Frit contains Lead & Cadmium. Crystalline Silica may also be present .  
(OSHA PEL .1mg/m3)

Route(s) of Entry: Ingestion, absorption through the skin is negligible.  
Inhalation only if sprayed.

Health Hazards (acute and chronic): Prolonged or repeated inhalation and/or ingestion of lead containing frit may result in lead poisoning. Prolonged Inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs. Carcinogenicity: In IARC Supplement 7, inorganic lead compounds are given a 2B rating. This indicates "sufficient evidence" for carcinogenicity to animals and "inadequate evidence" for carcinogenicity to humans. California lists lead as a possible

carcinogen and requires Prop. 65 warning as required.

#### **SECTION 4: FIRST AID MEASURES**

- If inhaled: Remove from exposure
- If on skin: Wash skin with soap and water
- If in eyes: Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a physician.
- If swallowed: Dilute by drinking water

#### **SECTION 5: FIRE FIGHTING MEASURES**

##### **FIRE AND EXPLOSION HAZARD DATA**

Flash Point (method used): N/A

LEL: N/A

UEL: N/A

Flammable Limits: N/A

Extinguishing Media: None required - not combustible

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Steps to be taken in case material is released or spilled:

Uncontaminated material may be recovered and re-used. If contaminated, scoop, vacuum, or wash into a receptacle for disposal.

Waste Disposal Method: Follow Federal or State and Local regulations for disposal.

Lead is listed in US-EPA Code of Federal Regulations 40, Part 261.24. Testing of the waste may be required to determine status under the hazardous waste regulations.

#### **SECTION 7: HANDLING AND STORAGE**

##### **PRECAUTIONS FOR SAFE HANDLING AND USE:**

- Engineer Control - None
- Work practices- Store away from feed and food. Do not smoke, eat or drink while handling.
- Procedure/equipment: None
- Procedure for leaks or spills: Uncontaminated material may be recovered and reused. If contaminated, scoop, vacuum, or wash into a receptacle for disposal.
- Waste Disposal Method: Follow Federal or State and Local regulations for disposal.
- Lead is listed in US-EPA Code of Federal Regulations 40, Part 261.24. Testing of the waste may be required to determine status under the hazardous waste regulations.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Use of the following protective measures are strongly recommended if the glazes are to be applied by spraying.

The Work/Hygienic Practices apply regardless of the method of application. Respiratory Protection (Specify Type): Use a NIOSH approved dust and/or fume respirator as necessary.

Ventilation: Local Exhaust - for spraying

Protective Gloves: N/A

Eye Protection: for spraying

Other Protective Clothing or Equipment: Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons. Work/Hygienic Practices: Food, beverages, and smoking materials should not be in the work area. Hygiene is very important. Wash thoroughly before eating, drinking, smoking, or applying cosmetics.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Various colors  
Odor and odor threshold: Negligible  
Ph: Not available  
Boiling Point: None  
Vapor Pressure: NA  
Vapor Density: NA  
Melting Point: above 1000oF  
Specific Gravity (H<sub>2</sub>O=1): 1.4 to 1.6  
Flammable Limits: None  
Explosive limits: None  
Partition Coefficient: None  
Oxidizing Properties: None  
Solubility in Water: Negligible  
Percent Volatile by Volume: None  
Evaporation Rate: None  
Freezing point: NA  
Flash Point: None  
Auto ignition temperature: None

## **SECTION 10: STABILITY AND REACTIVITY DATA**

- Incompatibility (material to avoid): Avoid fumes from firing by venting kiln area.
- Stability: Stable (conditions to avoid): N/A
- Hazardous Decomposition or Byproducts: Not available
- Hazardous Polymerization: Will not occur
- Conditions to avoid: Fumes from firing in kiln. Inhalation of spray.

## **SECTION 11: TOXICOLOGY INFORMATION**

### **Hazard to Human:**

None during normal use. Harmful if inhaled or swallowed.

Lead Bearing Frit (s) - Frit is a fused silicate glass substance.

**DO NOT SPRAY APPLY**

If glaze is spray applied the following warnings apply: Warning: Contains Quartz.

1. Possible cancer agent based on tests with laboratory animals.
2. Exposure may cause lung damage.
3. Keep out of reach of children; avoid inhalation.

This product contains chemicals known to the State of California to cause cancer.

Health Hazards (acute and chronic): Prolonged or repeated Inhalation and/or Ingestion of lead / cadmium containing frit may result in lead and or cadmium poisoning. Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs. Carcinogenicity: In IARC Supplement 7, Inorganic lead and or cadmium compounds are given a 2B rating. This indicates "sufficient evidence" for Carcinogenicity to animals and "Inadequate evidence" for Carcinogenicity to humans.

Additional Information: Frits are fused silica glass like substances. The bioavailability may be limited because of the physical nature of the frit.

## **SECTION 12: ECOLOGICAL INFORMATION**

- Mobility: Not available.
- Persistence/degradability: Not available.
- Bioaccumulation: Not available.
- Ecotoxicity: Not available.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Follow your Federal or State and Local regulations for disposal. Lead is listed in US-EPA Code of Federal Regulations 40, Part 261.24.

Testing of the waste may be required to determine status under the hazardous waste regulations.

Waste from residue/unused product: Can be landfilled according to local regulations. Contaminated packing: Can be landfilled according to local regulations.

### **SECTION 14: TRANSPORTATION INFORMATION**

UN Number: None for this product.

For soluble lead UN number is 2291, guide number is 53

For cadmium UN number is 2570, guide number is 53

### **SECTION 15: REGULATORY INFORMATION**

Lead and Silica and cadmium are listed by California , Proposition 65

Lead and Silica and cadmium are listed on the IARC, OSHA or NTP carcinogen list.

All ingredients are on U.S. TSCA / EC / AICS / DSL Inventory.

See local requirements.

EU Status:

Symbol- None for Frit

For lead compounds;

Repr. Cat 1

R 61- May cause harm to unborn child.

Repr. Cat 3

R62 - Possible risk of Impaired fertility

Harmful (xb)

R20/22 - Harmful by inhalation and If swallowed

R33 - Danger of cumulative effects

For Cadmium compounds

Harmful (xb)

R 20/21/22 - Harmful by inhalation and If swallowed

WHMIS Status : Not Controlled

### **SECTION 16: ADDITIONAL INFORMATION**

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