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MSDS SHEET #4 Non Toxic Fired Products (w/encapsulated cadmium pigments)

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Prepared: September 21, 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 and Underglaze

Crystalites S-2720, S-2721, S-2728, S-2729, S-2730
 One Stroke Translucent OS-44, OS-45, OS-46
 Underglazes
 Series 2000 Glazes S-2104, S-2105, S-2122, S-2130, S-2168, S-2170, S-2172,
 S-2224, S-2225, S-2586
 Speckled Stroke & Coat® SP-204, SP-274
 Stroke & Coat® SC-20, SC-23, SC-24, SC-4, SC-50, SC-73, SC-74, SC-75, SC-80
 Underglazes UG-84, UG-85, UG-86

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	ACGIH TLV	OSHA PEL
Cadmium Pigments in insoluble form	12656-57-4 & 58339-34-7	Cadmium .01 mg/m3	.2mg/m3
Bentonite	1302-78-9	N/A	N/A
Water	7732-18-5	N/A	N/A
Zirconium Compounds	7782-49-2	0.20mg/M3	0.20mg/M3
Silica	14808-60-7	0.10mg/M3	0.10mg/M3

SECTION 3: HAZARDS IDENTIFICATION

Product contains insoluble cadmium pigments.

Crystalline silica may also be present.

(OSHA PEL .1mg/m³)

Route(s) of Entry: Igestion, absorption through the skin is negligible.

Inhalation only if sprayed.

Health Hazards (acute and chronic): Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.

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:

Untamminated 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. 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: Untamminated 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. 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 (H2O=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 Humans: None during normal use. Harmful if inhaled or swallowed.

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 inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.

Additional information: Frits are fused silica glass like substances. The bioavailability may be limited because of the physical nature of the frit. The cadmium pigments used are encapsulated in a zirconium matrix. These products have been certified by a toxicologist as NON TOXIC.

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 cadmium UN number is 2570, guide number is 53

SECTION 15: REGULATORY INFORMATION

Silica and cadmium are listed by California , Proposition 65
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 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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