Sax True Flow® Ceramic Glazes

SECTION 1: COMPANY & PRODUCT IDENTIFICATION

Prepared:		January 1, 2011
Supersedes:		October 1, 2008
Manufacturer:		Coloramics, LLC (D.B.A. Mayco Colors)
		4077 Weaver Court South
		Hilliard, Ohio 43026
		United States of America
		(614) 876-1171

IN CASE OF EMERGENCY PLEASE CONTACT YOUR REGIONAL POISON CONTROL CENTER

Product Identification: Ceramic Glazes

Product Usage: Glazing of ceramic ware

Product Lines Covered by this Safety Data Sheet:

Sax True Flow® Colorburst Glazes	All Products
Sax True Flow® Crystal Magic Glazes	All Products
Sax True Flow® Gloss Glazes	All Products

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	% of Formula (Low to High)
Silica (Quartz)	14808-60-7	1% - 3%
Calcium Carbonate	471-34-1	0% - 3%
Frit (lead free)	65997-18-4	21% - 55%

Various Pigments	Confidential	Varies
Kaolin/Clay	1332-58-7	2% - 7%
Zinc Oxide	1314-13-2	0% - 1%
Carboxymethylcellulose	9004-32-4	0% - 1½%
Nepheline Syenite	37244-96-5	0% - 13%
Zirconium Silicate (Zr Si O_4)	10101-57-7	0% - 7%
Water	7732-18-5	Varies

SECTION 3: HAZARDS IDENTIFICATION

Crystalline silica dust will be present when using dry mix products and may be present if unfired, dried glaze is excessively handled and allowed to create dust.

Mists from spraying may contain crystalline silica.

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

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:** May cause irritation; remove from exposure
- **If on skin:** May cause irritation; wash skin with soap and water
- **If in eyes:** May cause irritation; flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a physician.
- **If swallowed:** Contact a physician.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media	None
Special Hazards Arising From Chemical Fire	None
Special Protective Equipment and Precautions for Fire Fighters:	None

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SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal Precautions, Protective Equipment and/or Emergency Procedures: None

Materials and Methods for Containment and Clean-Up: None

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND USE:

- **Ventilation:** Local exhaust (if spray applying)
- **Precautions for Safe Handling:** None
- **Conditions for Safe Storage, Including Incompatibilities:** None

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	OSHA PEL	ACGIH TLV
Silica ($Si O_2$)	30 mg/m^3	0.025mg/m^3
Calcium Carbonate	15 mg/m^3	N/A
Frit	N/A	N/A
Zirconium Silicate	N/A	N/A
Kaolin/Clay	N/A	N/A
Nepheline Syenite	N/A	N/A
Zinc Oxide	15 mg/m^3	2 mg/m^3
Carboxymethylcellulose	N/A	N/A
Water	N/A	N/A

- **Engineer Control:** Adequate ventilation (local exhaust) if spray applied.
- **Respiratory Protection:** Use a NIOSH approved respirator if spray applying.
- **Protective Gloves:** Not normally needed.
- **Eye Protection:** Wear appropiate eye protection or safety glasses to keep dust out of eyes.

- **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:	Colored and/or Clear Liquids
Odor/Odor Threshold:	Neglible
PH:	N/A
Boiling Point:	N/A
Freezing point:	32°F
Flash Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Flammability:	N/A
Evaporation Rate:	N/A
Upper/Lower Explosive Limits:	None
Partition Coefficient (n-octanol/water):	None
Relative Density:	N/A
Solubility(ies):	N/A
Decompositional Temperature:	None
Viscosity:	N/A
Auto ignition temperature:	N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	N/A
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	Fumes from firing in kiln; Mist created from spray application.

Incompatible Material:	None
Hazardous Decomposition or By-Products:	N/A

SECTION 11: TOXICOLOGY INFORMATION

Primary Route(s) of Entry: Dermal, Inhalation. The highest threat of inhalation exists during dispensing and mixing of dry products, excessive handling of dried, unfired glazed ware and/or during spray application.

Additional information:

These mixtures contain silica, a know carcinogen. **Inhalation** is the only route of entry into the body that can cause Silicosis.

The water-based, premixed products and the dry mix products, when mixed with water, should be non-toxic during recommended use.

Pigments are various metals and metal compounds (may contain one or more of following: tin, iron, zirconium, zinc, cobalt, chromium (III) vanadium, praseodymium, aluminum, cadmium, copper, selenium, manganese).

The risk of exposure to these metals is minimal due to the low percentage used in the glaze formulas. Dermal exposure is negligible as these metals have poor dermal absorption. Inhalation exposure is increased with the use of dry mix products.

Cobalt, and cadmium are considered animal carcinogen. Silica (quartz) is considered a human carcinogen.

Frits are fused silica glass like substances. The bioavailability is limited because of the physical nature of the frit.

These products conform to ASTM-4236 and have been certified by an independent, 3rd party toxicologist to be NON TOXIC.

SECTION 12: ECOLOGICAL INFORMATION

Mobility in Soil:	No
Persistence:	Yes
Bioaccumulation:	No
Ecotoxicity:	None
Other Adverse Effects:	None

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Residue/Disposal Methods: None

Safe Handling Information: None

SECTION 14: TRANSPORTATION INFORMATION

UN Shipping Name: N/A
UN Number: None
Environmental Hazard: None
Packing Group: None
Transportation Hazard Class: N/A
Special Precautions: None

SECTION 15: REGULATORY INFORMATION

Silica (Quartz), Cobalt and Cadmium are listed by California, Proposition 65, as carcinogenic.

Silica (Quartz), Cobalt and Cadmium are listed on the IARC, OSHA or NTP carcinogen list.

All ingredients are on U.S. TSCA Inventory.

SARA Section 313: None

These products conform to ASTM-4236. Materials have been evaluated under the provisions of LHAMA (Labeling of Hazardous Art Material Act). Products listed on this SDS have been judged to be non-toxic and non-flammable under proposed use conditions. No special warning is required under provisions of LHAMA or California Proposition 65.

SECTION 16: ADDITIONAL INFORMATION

Sax True Flow® Glazes do not contain and products and/or ingredients derived from peanuts, eggs, milk, or wheat. Sax True Flow® Glazes do not contain latex.

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