

PRODUCT / MATERIAL: GLAZE
 MANUFACTURER / DISTRIBUTOR: LAGUNA CLAY COMPANY
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SECTION I - PRODUCT INFORMATION

TRADE NAME: EM2104
 SYNONYM: COBALT BLUE
 CHEMICAL FAMILY: Ceramic Glaze

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME	Maximum Percent	CAS NUMBER	OSHA PEL TWA: (mg/m3)	NIOSH REL TWA: (mg/m3)	ACGIH TLV TWA: (mg/m3)
Aluminum oxide (non fibrous)	2	1344-28-1	5		
Cobalt or Cobalt Compounds	8	7440-48-4	0.1		0.02
Fluorides, as F	1	7782-41-4	0.2		2
Silica, Crystalline (Quartz)	2	14808-60-7	10 mg/m3 / %SiO ₂ + 2	0.05	0.05

SECTION III - PHYSICAL DATA

BOILING POINT (°F) Not Applicable
 VAPOR PRESSURE Not Applicable
 VAPOR DENSITY Not Applicable
 SOLUBILITY IN WATER Insoluble
 SPECIFIC GRAVITY 1.7 – 3.7
 PERCENT VOLATILE BY WEIGHT 0
 EVAPORATION RATE 0
 APPEARANCE AND ODOR Color varies between moist and dry state; no odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT Not Flammable
 EXTINGUISHING MEDIA Water
 UNUSUAL FIRE OR EXPLOSION HAZARDS None
 SPECIAL FIRE FIGHTING PROCEDURES None

SECTION V - REACTIVITY DATA

STABILITY FACTOR Product is stable.
 INCOMPATIBILITY None
 HAZARDOUS DECOMPOSITION PRODUCTS None. Hazardous polymerization will not occur.
 CONDITIONS TO AVOID Inhalation of dust.

SECTION VI - HEALTH HAZARD DATA

♦ Aluminum oxide (non fibrous)

On the skin: Can cause mild irritation.
 On the eye: Can cause mild irritation.

Inhalation: Can cause mild upper respiratory tract irritation.
 Ingestion: Can cause mild irritation.

◆ Cobalt or Cobalt Compounds

Exposure to cobalt compounds may cause sensitization by inhalation and skin contact. Dust from handling can cause irritation of nose and throat. Prolonged exposure could cause serious respiratory illness and lung damage. Sensitized persons may develop wheezing and shortness of breath. Can also cause an allergic skin rash in some individuals. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

◆ Fluorides, as F

Fluoride containing vapors from firing may cause lung inflammation and injury in terms of hours with symptoms of chest pains, chills, cough, headache, and diarrhea.

◆ Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

PRIMARY ROUTES OF ENTRY:	Inhalation (dry form only), ingestion and dermal.
SUMMARY OF RISKS:	Individuals with a lung disease/condition (e.g.: bronchitis, emphysema, chronic pulmonary disease) can be aggravated by exposure.
EMERGENCY FIRST AID:	No specific first aid is necessary since the adverse health effects associated with this compound results from chronic exposures.
Eye Contact	May be an irritant, flush eyes with generous amounts of water for at least 15 minutes; call a physician if irritation persists.
Skin Contact	May cause local dermatitis, which is relieved when removed.
Ingestion	Toxicity due to ingestion is low.
Inhalation	Remove to fresh air, call a physician if irritation due to inhalation persists.
Physician's Note	None.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills or Release Procedure	Follow normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum or use wet clean-up techniques.
Waste Disposal Procedure	Dispose material in accordance with Federal, State, and Local regulations.



SECTION VIII - CONTROL MEASURES

Provide adequate ventilation to keep dust or vapor concentrations below acceptable exposure limits. Use gloves as needed for handling material containers. Wear safety glasses when needed. Appropriate respiratory protection may be required to protect from certain dusts. Respirators must be selected and used in accordance with OSHA Subpart 1 of (29 CFR 1910.134).

SECTION IX - TOXICOLOGICAL INFORMATION

This product (and all of its components) is in compliance with the U.S. EPA 15 U.S. C.2604 regulation.

This product is certified as NON-TOXIC, and conforms to ASTM-D-4236 and C-1023 under the federal Labeling of Hazardous Art Materials Act (LHAMA). Specific Toxicology information on materials is available upon request.

SECTION X - REGULATORY

This product may contain materials that are reportable under Section 313 of the Emergency Planning and Community Right-To-Know Act (Superfund Amendments and Reauthorization Act – SARA), and 40 CFR Part 372.

SARA Title III Data:

Cobalt or Cobalt Compounds	<	8 %
Flourides, as F	<	1 %

These levels are "typical quantities" and may change slightly with different lots.

THIS PRODUCT CONTAINS SUBSTANCES REGULATED UNDER CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65).

SECTION XI - DISCLAIMER

The information provided in this MSDS document has been provided to Laguna Clay Company by its material suppliers and is represented by those suppliers as accurate and reliable.

Laguna Clay Company is not liable for injury, loss, or damage, direct or consequential, arising out of the use or inability to properly use this product. This product is intended only for use in traditional ceramic applications.

This MSDS conforms to the ASTM D-4236 and C-1023 requirements defined by LHAMA, the Federal Labeling of Hazardous Art Materials Act. LHAMA was developed by the American Society of Testing and Materials (ASTM) to ensure the proper labeling of art materials.