

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

TRADE NAME: EM1159  
 SYNONYM: ROOTBEER  
 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)
Flourides, as F	1	7782-41-4	0.2		2
Zinc or Zinc Compounds	3	7440-66-6	5	5	5
Zirconium or Zirconium Compounds	5	7440-67-7	5		5

**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**

## ◆ Flourides, 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.

◆ Zinc or Zinc Compounds

May causes skin irritation if in contact for extended periods of time.

◆ Zirconium or Zirconium Compounds

Skin, lung granulomas; in animals: irritation skin, mucous membrane; X-ray evidence of retention in lungs.

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 it's 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:

Flourides, as F	<	1 %
Zinc or Zinc Compounds	<	3 %

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.