

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Name, address, telephone number and emergency telephone number of the manufacturer:

Standard Ceramic Supply Company
24 Chestnut Street / P.O. Box 16240
Carnegie, PA 15106-2028
Telephone / Emergency Telephone Number: 412-276-6333

Product Identifier used on the label: Lead-Free Low Fire Glazes

Recommended use of product: Glazing of ceramic ware

LF 2000 CLEAR	LF 2016 LILAC
LF2001 WHITE	LF 2017 MULBERRY
LF 2002 MIDNIGHT	LF 2018 KEY LIME
LF 2003 GARNET	LF 2021 MAHOGANY
LF 2004 COBALT	LF 2022 PEWTER
LF 2005 LEMON	LF 2024 TEAL
LF 2006 TANGERINE	LF 2026 BLUEBERRY
LF 2007 GRAPE	LF 2027 AQUA
LF 2008 SKY	LF 2030 PLUM
LF 2009 BUBBLEGUM	LF 2031 FERN
LF 2010 JADE	LF 2032 SUNFLOWER
LF 2011 WATERMELLON	LF 2033 CERULEAN
LF 2012 CHOCOLATE	LF 2034 PERIWINKLE
LF 2013 BATTLESHIP	LF2036 TURQUOISE
LF 2014 RUBY	
LF 2015 IVY	

Section 2: HAZARDS IDENTIFICATION

Hazard classification of chemical: Miscellaneous

Hazard Statement(s): Crystalline silica dust is present when using dry mix products and may be present if unfired glaze is excessively handled and creates dust. Mists from spraying may also contain crystalline silica.

Precautionary statement(s): Wear appropriate personal protective equipment and avoid overexposure.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	% OF FORMULA
Frit (lead free)	65997-18-4	0% - 90%
Various Pigments	Confidential	0% - 15%
Kaolin/Clay	1332-58-7	0% - 15%
Bentonite	1302-78-9	0%-2%
Zirconium Silicate (Zr Si O4)	10101-57-7	0% - 15%

Section 4: FIRST-AID MEASURES

DESCRIPTION OF FIRST-AID MEASURES

Ingestion: Contact a physician immediately.

Inhalation: May cause irritation; remove from exposure.

Skin Contact: May cause irritation; rinse skin with soap and water.

Eye Contact: May cause irritation; flush eyes with water for at least 15 minutes. If irritation continues afterwards, contact a physician.

Section 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable extinguishing media: None

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Protective equipment for firefighters: None

Special firefighting procedures: None

Section 6: ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions: None

Methods and Materials for Containment and Clean Up: None

Special Spill Response Procedures: None

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling and Use: Local Exhaust Ventilation when spraying

Conditions for Safe Storage: None

Incompatible Materials: None

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Ingredients	OSHA PEL	ACGIH TLV
Frit (lead free)	N/A	N/A
Various Pigments	N/A	N/A
Kaolin/Clay	N/A	N/A
Bentonite	N/A	N/A
Zirconium Silicate	N/A	N/A

Bentonite	30mg/m3	0.1mg/m3
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EXPOSURE CONTROLS

Ventilation and engineering measures: Adequate Ventilation (local exhaust) when spraying.

Respiratory protection: Use a NIOSH approved respirator when spraying.

Skin protection: Wear appropriate protective clothing such as, overalls, smocks, and aprons.

Eye/face protection: Wear safety glasses to keep dust out of your eyes.

Hygienic Practices: Food, beverages, and smoking materials should not be in work area. Employees should wash hands thoroughly before eating, drinking, or smoking.

Section 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Colored or clear liquids
Upper/lower flammability or explosive limits:	None
Odor:	None
Vapor pressure:	N/A
Odor threshold :	Negligible
Vapor density:	N/A
pH:	N/A
Relative density:	N/A
Freezing point:	32 degrees Fahrenheit
Solubility(ies)	N/A
Initial boiling point and boiling range:	N/A
Flash Point:	N/A
Evaporation rate:	N/A
Flammability (solid gas)	N/A
Partition coefficient: n-octanol/water:	None

Auto-ignition temperature: N/A
Decomposition temperature: None
Viscosity : N/A

Section 10 : STABILITY /REACTIVITY

Reactivity: N/A

Chemical stability: Stable

Possibility of hazardous reactions: None

Conditions to avoid: Fumes from firing in the kiln; Mist created from applying spray

Incompatible materials: None

Hazardous decomposition products: N/A

Section 11: TOXICOLGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Routes of Entry: Inhalation is the most important during dispensing and mixing of dry products or excessive handling of unfired glazed materials during spraying.

POTENTIAL HEALTH EFFECTS, Signs and symptoms of short-term (acute) exposure:

Sign and symptoms inhalation: Coughing or irritation may occur.

Sign and symptoms ingestion: Sickness or irritation may occur.

Sign and symptoms skin: Redness or irritation may occur.

Sign and symptoms eyes: Redness or irritation may occur.

Potential chronic health effects: These mixtures contain silica, which can cause Silicosis through inhalation over an extended period of time. Overexposure to silica may also result in injury to the lungs.

Carcinogenicity: Cobalt is considered an animal carcinogen. Silica (quartz) is a human carcinogen.

Additional Information: 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 compound metals. The risk of exposure to these metals is minimal due to low percentages used in glazed formulas. Dermal exposure is negligible since metals have poor dermal absorption. Inhalation exposure increases with the use of dry mix products.

Frits are fused silica glass like substances. Bioavailability is limited because of the physical appearance of the frit.

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

Section 12: ECOLOGICAL INFORMATION (non-mandatory)

Eco toxicity: None

Persistence and degradability: Yes

Bioaccumulation potential: No

Mobility in soil: No

Other adverse environmental effects: None

Section 13: DISPOSAL CONSIDERATIONS (non-mandatory)

Handling for Disposal: None

Methods of Disposal: None

Section 14: TRANSPORT INFORMATION (non-mandatory)

UN Shipping Name: N/A

UN Number: None

Environmental Hazard: None

Packing Group: None

Transportation Hazard Class: N/A

Special Precautions: None

NOT DANGEROUS FOR TRANSPORT

Section 15: REGULATORY INFORMATION (non-mandatory)

Silica (Quartz) and Cobalt are both listed by California, Proposition 65, as a carcinogen.

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

All ingredients are on U.S. TSCA Inventory.

All products listed in this SDS conform to ASTM-4236 standards. Materials have been evaluated under the provisions of Labeling of Hazardous Art Material Act. These products have been listed as non-toxic and non-flammable under proposed conditions. No specific warning is required.

Section 16: OTHER INFORMATION

This information is furnished without warranty, representation, inducement, or license of any kind, except that it is accurate to the best of knowledge of Standard Ceramic Supply Company or obtained from other references and sources believed to be accurate.

Standard Ceramic Supply Company does not assume any legal responsibility for use or reliance on our products. Customers are encouraged to conduct their own tests before using any product. Read all product labels prior to handling.

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