
MATERIAL SAFETY DATA SHEET

Identity:

Specialty Reds; 900 Series

Section I

Manufacturer's Name	Emergency Telephone Number	
Clay Planet – Western Ceramic Supply	650-592-2333	
Address	Telephone Number	
948 Washington Street	650-592-2333	
San Carlos, CA 94070	Date Prepared	Revision
HMIS Codes	April 10,2008	Oct 30, 2009
Health 3* Reactivity 0	Prepared By	
Fire 0 Protective Equip F	J. Dunlavy	
	(If Spraying)	

*Chronic potential

Section II
Hazardous Ingredients

<u>Components</u>	<u>OSHA PEL</u>	<u>ACGIN TLV</u>
Lead Compounds*, as Pb	0.05mg/m ³	0.15mg/ m ³
Cadmium Compounds*, as Cd	0.2 mg/ m ³	0.05 mg/ m ³
Fluorides*, as F	2.5 mg/ m ³	2.5 mg/ m ³
Selenium*, as Se	0.2 mg/ m ³	0.2 mg/ m ³

*Note: Frit is a fused silicate glass substance. The components of this glass product listed are from the inventory of potentially hazardous substances referenced by FED/OSHA in 29 CFR 1910-1200.

Other Information

Frits are produced from the chemical reactions, which occur during the high temperature smelting of various raw materials to form a molten glass. This glass is rapidly cooled and then ground to produce powdered structure of the frit. The lead listed for this product is incorporated into the glass structure of the frit, chemically reacted in the form of silicates of other essentially insoluble complexes. Exposure to the hazardous ingredient dissolves out of the glass. Because of the chemical stability of frit and its resistance to attack by acids or alkali, this is anticipated to occur very slowly.

This product contains the following component(s) that require reporting under Section 313 of the Emergency Planning and Community Right-to-Know Act, also known as Title III of SARA (the Superfund Amendments and Reauthorization Act), and 40 CFR Part 372:

<u>Component</u>	<u>CAS #</u>	<u>Percent Present</u>
Lead Compounds*	65997-18-4	Up to 36% (as PbO)
Cadmium Compounds*	mixture	Up to 5% (as CdO)
Selenium Compounds*	mixture	Up to 0.5% (as Se)

While existing in theory, the component(s) mentioned are only present as part of FRIT (CAS#65997-18-4).

Section III **Physical Data**

Boiling Point, (DEG°F) 212° F	Vapor Pressure, (MM HG.) N/A
Melting Point, (DEG°F) 1800° F	Vapor Density (AIR=1) N/A
Specific Gravity (Water=1): 2.5 – 3.0	Water Solubility, % Insoluble
Appearance and Odor Colored Liquid, Odorless	Freezing Point N/A
PH N/A	Evaporation Rate (Butyl Acetate=1) N/A

Section IV **Fire and Explosion Hazard Data**

Flash Point N/A	Flammable Limits LEL N/A UEL N/A
Extinguishing Media N/A	
Special Fire Fighting Procedures None. Will not burn.	
Unusual Fire and Explosion Hazards None.	

Section V **Reactivity Data**

Stability: Unstable Stable _X_
Conditions to Avoid
N/A

Incompatibility (Materials to Avoid)

Acids

Hazardous Decomposition or Byproducts

May react with acids to form volatile, toxic and flammable hydrogen sulfide.
Lead, Cadmium and Fluoride fumes from firing fumes from firing.

Hazardous Polymerization: May Occur _____ Will Not Occur X
Conditions to Avoid
N/A

Section VI
Health Hazard Data

Routes of Entry Inhalation? Yes Skin? No Ingestion? Yes

Health Hazards, Lead (Acute and Chronic)

Overexposure to lead may cause nervous system, kidney, or bone marrow damage or harm to the developing fetus.

Carcinogenicity

NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure

Symptoms of overexposure to lead includes weight loss, stomach cramps, loss of coordination, joint and muscle pains.

Health Hazards, Cadmium (Acute and Chronic)

Overexposure to Cadmium may kidney, pulmonary and reproductive system problems.

Carcinogenicity

NTP? Yes IARC Monographs? Yes OSHA Regulated? Yes

Signs and Symptoms of Exposure

Symptoms of exposure to cadmium include irritation to respiratory tract (dust), nausea, metallic taste in mouth. Overexposure may cause fatigue, sleep disturbance, headache, constipation, abdominal pains, loss of appetite, aching bones and muscles, uncoordinated body movements, and/or kidney problems.

Health Hazards, Selenium (Acute and Chronic)

Overexposure to selenium compounds may cause skin, eye and respiratory irritation. Sore throat, bronchitis, garlic breath odor, headache, indigestion and emotional symptoms may also be present.

Health Hazards, Fluoride fumes from firing (Acute and Chronic)

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

Carcinogenicity

NTP? No IARC Monographs? No OSHA Regulated? No

Medical Conditions Generally Aggravated by Exposure to Glaze

Abrasive, can scratch eyes. Dust or mist from spray may irritate respiratory tract. Skin contact may produce irritation in sensitive individuals.

Emergency and First Aid Procedures

- Eye Contact: Flush with water at least 15 minutes and contact physician.
- Skin Contact: Wash with soap and water.
- Inhalation: Remove victim to fresh air and contact physician.
- Ingestion: Contact poison control center.

Section VII

Precautions for Safe Handling

Steps to be Taken in Case Material is Released or Spilled

Clean up properly with paper towels and a wet sponge.

Waste Disposal Method

Follow Federal, State and Local regulations for disposal.

Precautions to be Taken in Handling and Storing

When using, do not eat, drink or smoke. Wash hands immediately after use. Keep sealed. Keep out of reach of children.

Other Precautions

Avoid using if pregnant or contemplating pregnancy.

Section VIII

Control Measures

Respiratory Protection (Specify Type)

Use NIOSH approved dust and mist respirator for lead such as 3M 8710 or equivalent (if spraying). Avoid fumes from firing.

Ventilation

Local Exhaust

Recommended

Special

Use respirator when spraying

Mechanical (General)	Other
Recommended when spraying	None
Protective Gloves	Eye Protection
Yes	Yes

Other Protective Clothing or Equipment

If in the glaze form and applying by spray, use spray booth and respiratory. Clean spray booth filters often.

Work/Hygienic Practices

Wear protective clothing that is removed before eating, drinking, smoking, or leaving work. Wash thoroughly, immediately after spraying. If glaze spraying regular blood lead level testing is advisable.

Section IX
Additional Information

CALIFORNIA Proposition 65 WARNING: This product contains chemicals know to the State of California to cause cancer, birth defects or other reproductive harm.

Conforms to
ASTM D-4236



“Products bearing the Caution Label are certified to be properly labeled in a program of toxicological evaluation by a nationally recognized toxicologist. The products are certified by the toxicologist to be labeled in accordance with the chronic hazard labeling standard ASTM D-4236”

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