

MATERIAL SAFETY DATA SHEET					Form Approved Bureau Budget No. 45-R0338			
<b>SECTION I</b>	MANUFACTURER'S NAME AND FSCM (Federal Supply Code for Manufacturers)				EMERGENCY PHONE NO.			
	CHEM-CLAY CORP., STANDARD CERAMIC SUPPLY DIV.				412-276-6333			
	ADDRESS (Number, Street, City, State, and ZIP Code)							
	P.O. BOX 4435, PITTSBURGH, PA. 15205							
	CHEMICAL NAME AND SYNONYMS			TRADE NAME AND SYNONYMS				
				Lead Free Enamels				
CHEMICAL FAMILY		FORMULA						
Lead Free Borosilicate Glass		SiO <sub>2</sub> , Na <sub>2</sub> O, B <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , F, LiO <sub>2</sub> , etc.						
FEDERAL STOCK NUMBER (FSN)		GROSS WEIGHT (LBS)		OUTSIDE PACKAGE DIMENSIONS (Inches)				
MIL-STD-1341/NATIONAL FIRE PROTECTION ASSOCIATION STD 704M SIGNAL								
FLAMMABILITY <u>None</u>		HEALTH <u>None</u>		REACTIVITY <u>None</u>				
				SPECIFIC HAZARD <u>None</u>				
<b>SECTION II</b>	HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	THRESHOLD LIMIT VALUE (Units)		
	PAINTS, PRESERVATIVES, AND SOLVENTS		%	THRESHOLD LIMIT VALUE (Units)	ALLOYS AND METALLIC COATINGS		%	THRESHOLD LIMIT VALUE (Units)
	PIGMENTS		0		BASE METAL		0	
	CATALYST		0		ALLOYS		0	
	VEHICLE		0		METALLIC COATINGS		0	
	SOLVENTS		0		FILLER METAL PLUS COATING OR CORE FLUX		0	
	ADDITIVES		0		OTHERS		0	
	OTHERS		0					
	Present in all enamels in glass frit matrix		Boron		Less than 6		15	as B
	Present in all enamels in glass frit matrix		Fluorine		Less than 1		2.5	as B
Present in opaque reds and oranges				Less than 4		.05	as Cd	
<b>SECTION III</b>	BOILING POINT (°F.)		0		SPECIFIC GRAVITY (H <sub>2</sub> O=1)		2.6	
	VAPOR PRESSURE (mm Hg.)		0		PERCENT VOLATILE BY VOLUME (%)		0	
	VAPOR DENSITY (AIR = 1)		0		EVAPORATION RATE (_____ = 1)		0	
	SOLUBILITY IN WATER							
	APPEARANCE AND ODOR							
<b>SECTION IV - FIRE AND EXPLOSION</b>	FLASH POINT (Method used)		0		FLAMMABLE LIMITS	LOWER EXPLOSIVE LIMIT	UPPER EXPLOSIVE LIMIT	
						N/A	N/A	
	EXTINGUISHING MEDIA		N/A					
	SPECIAL FIRE FIGHTING PROCEDURES		N/A					
	UNUSUAL FIRE AND EXPLOSION HAZARDS		N/A					

SECTION V HEALTH HAZARD DATA	THRESHOLD LIMIT VALUE None - Toxic		
	EFFECTS OF OVEREXPOSURE		
	EMERGENCY AND FIRST AID PROCEDURES With adequate ventilation, dust control and good hygiene no problems should occur.		
	Carcinogen Material - Cd in Reds and Cadmium Yellows		
SECTION VI REACTIVITY DATA	STABILITY	UNSTABLE	CONDITIONS TO AVOID
		STABLE	X
	INCOMPATIBILITY (Materials to avoid)		
	HAZARDOUS DECOMPOSITION PRODUCTS		
SECTION VII SPILL OR LEAK PROCEDURES	HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID
		WILL NOT OCCUR	X
	STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Uncontaminated material should be scooped up for use. If contaminated scoop into receptacle for disposal.		
	WASTE DISPOSAL METHOD		
SECTION VIII - SPECIAL PROTECTION INFORMATION	RESPIRATORY PROTECTION (Specify type) NIOSH/MESA Brand 9920 or equivalent		
	VENTILATION	LOCAL EXHAUST Adequate for dust control	SPECIAL
		MECHANICAL (General) Vent to dust collector	OTHER
	PROTECTIVE GLOVES	work gloves recommended.	EYE PROTECTION YES
SECTION IX SPECIAL PRECAUTIONS	OTHER PROTECTIVE EQUIPMENT		
	PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING		
	OTHER PRECAUTIONS		
SECTION X TRANS. DATA	PROPER SHIPPING (Article) NAME Glass Frit		DOT CLASSIFICATION Non Hazardous
	DOT LABEL	DOT MARKING	EMERGENCY ACCIDENT PRECAUTIONS AND PROCEDURES None
	DOT PLACARD	PRECAUTIONS TO BE TAKEN IN TRANSPORTATION None	