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**MATERIAL SAFETY DATA SHEET**  
**FOR COATINGS, RESINS AND RELATED MATERIALS**  
 (Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

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**Section I -- PRODUCT IDENTIFICATION**

PRODUCT NAME \* - Trade Mark  
**Production Baking Enamel, Non-Lead Colors**  
 PRODUCT NUMBERS AND COLORS  
**F73 B 10 Gloss Black. F73 V 100 Blending Clear.**  
**F73 L 11 Blue. F73 W 100 Blending White.**  
 --- Including Non-Lead Containing Custom Colors ---  
 PRODUCT CLASS  
**Amino-Alkyd Enamel**

**Section II -- HAZARDOUS INGREDIENTS**

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PPE	UNIT	V.P.
64742-48-9	V. M. & P. Naphtha.	10-15	300		PPM	12.0
64742-47-8	Mineral Spirits.	10-15	100	500	PPM	2.0
108-88-3	Toluene.	5	100	200	PPM	22.0
1330-20-7	Xylene.	<5	100	100	PPM	5.9
78-83-1	2-Methyl-1-propanol	15-20	50	100	PPM	8.7
111-76-2	2-Butoxyethanol	<5	25	50	PPM	0.6
50-00-0	Formaldehyde <IND>	<0.5	1		PPM	760.0
13463-67-7	Titanium Dioxide.	0-25	10		Mg/H3	

< > Ingredient is an IARC<I>, NTP<D> or OSHA<D> listed carcinogen

**Section III -- PHYSICAL DATA**

EVAPORATION RATE -- Slower than Ether	VAPOR DENSITY -- Heavier than Air
BOILING RANGE (F) 178 - 415	% VOLATILE VOLUME 63-68
	WT/GAL 7.7-9.4

**Section IV -- FIRE AND EXPLOSION HAZARD DATA**

FLAMMABILITY CLASSIFICATION FLASH POINT 45 F PMCC LEL 0.9  
 RED LABEL -- Flammable, Flash below 100 F  
 EXTINGUISHING MEDIA  
 Carbon Dioxide, Dry Chemical, Foam  
 UNUSUAL FIRE AND EXPLOSION HAZARDS  
 Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.  
 SPECIAL FIRE FIGHTING PROCEDURES  
 Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

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**Section V -- HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE -- See Section II  
 EFFECTS OF OVEREXPOSURE

ACUTE: Overexposure causes eye, skin and respiratory irritation. May cause nervous system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possibly death. May cause allergic respiratory and/or skin reaction in susceptible persons.  
 CHRONIC: Exposure to high levels of formaldehyde has been shown to cause cancer of the nasal cavity in rats. Available evidence in humans is inconclusive. Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, reproductive, and cardio-vascular systems. Rats exposed to titanium dioxide dust at 250 mg./m<sup>3</sup> developed lung cancer, however, such exposure levels are not attainable in the workplace. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**EMERGENCY AND FIRST AID PROCEDURES**

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.  
 If on SKIN: Wash affected area thoroughly with soap and water.  
 Remove contaminated clothing and launder before re-use.  
 If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**Section VI -- REACTIVITY DATA**

STABILITY -- Stable  
 HAZARDOUS DECOMPOSITION PRODUCTS  
 By fire: Carbon Dioxide, Carbon Monoxide  
 HAZARDOUS POLYMERIZATION -- Will Not Occur

**Section VII -- SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
 Remove all sources of ignition. Ventilate and remove with inert absorbent.  
 WASTE DISPOSAL METHOD  
 Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.  
 Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

**Section VIII -- PROTECTION INFORMATION**

PRECAUTIONS TO BE TAKEN IN USE  
 Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.  
 Protect against dust which may be generated by sanding or abrading the dried film.  
 VENTILATION  
 Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.  
 RESPIRATORY PROTECTION  
 If personal exposure cannot be controlled below applicable limits by ventilation, wear respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

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**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use of barrier cream on exposed skin is recommended.

**Section IX -- PRECAUTIONS**

**DOL STORAGE CATEGORY -- 1B**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.  
 During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.  
 Consult NFPA Code. Use approved Bonding and Grounding procedures.  
 Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**OTHER PRECAUTIONS**

This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**HMIS**

HEALTH	<b>2*</b>
FLAMMABILITY	<b>3</b>
REACTIVITY	<b>0</b>

**MSDS for**  
**F73XL Lead-Containing Colors**  
**on reverse.**

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(4), for similar complex mixtures.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.