

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
KEM LUSTRAL* Enamel, Lead Colors
PRODUCT NUMBERS AND COLORS
F65 E 1 Orange F65 Y 2 Lemon Yellow
F65 E 2 Inter. Orange F65 Y 3 Ferrite Yellow
F65 G 1 Dark Green F65 Y 4 Medium Yellow
F65 G 9 Emerald Green F65 Y 12 Light Yellow
--- Including Lead-Containing Custom Colors ---
PRODUCT CLASS
Alkyd Enamel

Section II -- HAZARDOUS INGREDIENTS

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PPEL	UNITS	V.P.
64742-48-9	V. M. & P. Naphtha.	0-5	300		PPM	12.0
64742-47-8	Mineral Spirits.	35-50	100	500	PPM	2.0
Not avail.	Lead Organic Salt.	<5		0.05	Mg/M3	
13463-67-7	Titanium Dioxide.	0-5	10		Mg/M3	
1344-37-2	Lead Chromate.		0.05	0.05	Mg/M3	
7758-97-6	Lead Chromate.	<30	0.05	0.05	Mg/M3	
12656-85-8	Molybdate Orange.		0.05		Mg/M3	
No ingredient in this product is an IARC, NTP or OSHA listed carcinogen						
	Lead (as Pb)	<18	0.15	0.05	Mg/M3	
	Chromium VI (as Cr)	<4.5	0.05		Mg/M3	

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether VAPOR DENSITY -- Heavier than Air
BOILING RANGE (F) % VOLATILE VOLUME WT/GAL
240 - 395 60-65 7.8-10.0

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT 102 F PMCC LEL 0.9
Combustible, Flash above 99 and below 200 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.

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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.

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.
CHRONIC: Although studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer, available evidence indicates that Lead Chromate (Chrome Yellow, Molybdate Orange) DOES NOT present this hazard. Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, gastrointestinal, nervous, and reproductive systems (including embryotoxic effects).
Rats exposed to titanium dioxide dust at 250 mg./m3 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, Oxides of Metals in Section II

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 and extractability 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

Before initial use, consult OSHA's Standard for Occupational Exposure to Lead (29 CFR 1910.1025).

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

Protect against hazardous dust or fumes which may be generated by sanding, wirebrushing, abrading, burning, brazing or welding of the dried film.

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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.

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.

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- 2

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are COMBUSTIBLE. Keep away from heat and open flame.

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.

CONTAINS LEAD. Do not apply on toys and other children's articles, furniture, or any interior surface of a dwelling or facility which may be occupied or used by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed.

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

HMIS

HEALTH	2*
FLAMMABILITY	2
REACTIVITY	0

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.