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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  
**KEM LUSTRAL\* Enamel, Chromium-Containing Colors**  
 PRODUCT NUMBERS AND COLORS  
 F65 G 38 Dark Enamel F65 G 43 Emerald Green  
 F65 G 42 Pale Green F65 Y 46 Medium Yellow  
 --- Including Chromium VI-Containing Custom Colors ---  
 PRODUCT CLASS  
 Alkyd Enamel

**Section II -- HAZARDOUS INGREDIENTS**

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PCL	UNITS	V.P.
64742-47-8	Mineral Spirits.	45	100	500	PPM	2.0
34590-94-8	2-Methoxyethylethoxypropanol	0-5	100	100	PPM	0.4
13463-67-7	Titanium Dioxide.	0-15	10		Mg/M3	
11103-86-9	Potassium Zinc Chromate. <I>	<15	0.05		Mg/M3	
< > Ingredient is an IARC<I>, NTP<O> or OSHA<O> listed carcinogen						
	Chromium VI (as Cr)	<3.8	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  
 281 - 395 60-65 8.0-9.0

**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.  
 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.  
 CHRONIC: Studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer.  
 Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, and respiratory systems.  
 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  
 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.  
 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.

**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.

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

**HMIS**

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

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.