

E61 A 500  
E61 R 500

**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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DATE OF PREPARATION  
15-Dec-86

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**Section I -- PRODUCT IDENTIFICATION**

PRODUCT NAME  
KEM AQUA® Water Reducible Primer  
PRODUCT NUMBERS AND COLORS  
E61 A 500 Gray Primer.  
E61 R 500 Red Oxide Primer.  
PRODUCT CLASS  
Water-reducible Alkyd Coating

**Section II -- HAZARDOUS INGREDIENTS**

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PEL	UNITS	V.P.
111-76-2	2-Butoxyethanol	10	25	50	PPM	0.6
13463-67-7	Titanium Dioxide.	0-5	10		Mg/H3	
7789-06-2	Strontium Chromate. <D>	<0.5	0.05		Mg/H3	
	< > Ingredient is an IARC<D>, NTP<D> or OSHA<D> listed carcinogen					
	Chromium VI (as Cr)	0.09	0.05		Mg/H3	
	Crystalline Silica (Quartz)	15		Refer to OSHA Standard (29 CFR 1910.1000, Table 2-3)		

pH - 8.5

**Section III -- PHYSICAL DATA**

EVAPORATION RATE -- Slower than Ether	VAPOR DENSITY -- Heavier than Air
BOILING RANGE (F) 212 - 340	% VOLATILE VOLUME 60-62
	WT./GAL 11.1

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

FLAMMABILITY CLASSIFICATION  
Not Applicable  
EXTINGUISHING MEDIA  
Carbon Dioxide, Dry Chemical, Alcohol Foam  
UNUSUAL FIRE AND EXPLOSION HAZARDS  
Closed containers may explode (due to the build-up of steam pressure) when exposed to extreme heat.  
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: Irritant to skin, eyes, and upper respiratory system. In a confined area vapors in high concentration may cause headache, nausea or dizziness.  
CHRONIC: Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, and blood forming systems.  
Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.  
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 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.  
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.

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**Section IX -- PRECAUTIONS**

DOL STORAGE CATEGORY -- 3B  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  
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.

**HMIS**

HEALTH	2*
FLAMMABILITY	3
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.