**Chemical Coatings**

**KEM-FLASH® 500 Primer**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CHARACTERISTICS</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEM-FLASH® 500 Primers are high quality, fast air drying, VOC compliant alkyd primers. They satisfy the performance specification requirements of off road equipment and general metal markets.</td>
<td>Gloss: Flat, 2-10 units</td>
<td>General: Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, any contamination, and surface passivation treatments to ensure optimum adhesion and coating performance properties. Consult Metal Preparation Brochure CC-T1 for additional details.</td>
</tr>
<tr>
<td>Advantages:</td>
<td>Volume Solids: 52 ± 2%</td>
<td>Aluminum: If untreated, prime with Industrial Wash Primer, P60G2, or Kem Aqua Wash Primer, E61G520.</td>
</tr>
<tr>
<td>• Meets the EPA solvent emission regulation of a maximum 3.5 lb/gal volatile organic compounds (VOC)</td>
<td>Varies by color</td>
<td>Galvanized Steel: If untreated, prime with Industrial Wash Primer, P60G2, or Kem Aqua Wash Primer, E61G520.</td>
</tr>
<tr>
<td>• Excellent corrosion resistance</td>
<td>Viscosity: 14-32 seconds #3 Zahn Cup</td>
<td>Steel or Iron: Remove rust, mill scale, and oxidation products. For best results, treat the surface with a proprietary surface chemical treatment of zinc or iron phosphate to improve corrosion protection.</td>
</tr>
<tr>
<td>• Fast drying. Can be topcoated after 30 minutes</td>
<td>40-70 seconds #4 Ford Cup</td>
<td>Testing: Due to the wide variety of substrates, surface preparation methods, application methods and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</td>
</tr>
<tr>
<td>• High solids, 50% volume solids means more build with less passes.</td>
<td>Recommended film thickness: Mils Wet 3.0 - 3.5</td>
<td></td>
</tr>
<tr>
<td>• May be applied by airless or conventional spray without reduction or heat</td>
<td>Mils Dry 1.5 - 1.8</td>
<td></td>
</tr>
<tr>
<td>• Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303</td>
<td>Spreading Rate (no application loss) 446-577 sq ft/gal @ 1.5-1.8 mils DFT</td>
<td></td>
</tr>
<tr>
<td>• Ideal primer for farm and construction equipment, machinery, railroad cars, structural steel, and fabricated metal parts requiring excellent durability and rust protection</td>
<td>Drying (1.5 mils dft, 77°F, 50% RH):</td>
<td></td>
</tr>
<tr>
<td>• Can be reduced with exempt solvents, such as acetone to improve application</td>
<td>To Touch: 15-30 minutes</td>
<td></td>
</tr>
<tr>
<td>• Compatible with a wide range of topcoats, including:</td>
<td>Tack Free: 30-60 minutes</td>
<td></td>
</tr>
<tr>
<td>Kem Lustral® Enamel</td>
<td>To Recast: 30 minutes</td>
<td></td>
</tr>
<tr>
<td>Opalex® Production Lacquers</td>
<td>Force Dry: 10-30 minutes at up to 180°F</td>
<td></td>
</tr>
<tr>
<td>Fast Production Enamel</td>
<td>Flash Point: 65°F Pensky-Martens Closed Cup</td>
<td></td>
</tr>
<tr>
<td>Quick Dry Enamel</td>
<td>Package Life: 2 years, unopened</td>
<td></td>
</tr>
<tr>
<td>Quick Dry 350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Solids Acrylic Enamel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kem® Fast Dry High Solids Enamel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kem Acryl™ HS 100 Enamel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

An Environmental Data Sheet is available from your local Sherwin-Williams facility.
### APPLICATION

**Typical Setup**

**Reduction:** For 3.5 lb/gal VOC, reduce up to 3.5% maximum with Butyl Acetate, MAK, or MIBK for lower viscosity and easier application properties.

This product can be reduced further with exempt solvents such as acetone to improve application and still maintain 3.37 or 3.5 lb/gal VOC. Do not exceed 10% by volume with exempt solvent.

Fluid temperature of up to 120°F may also be used for better application.

**Conventional Spray:**
- Air Pressure: 40-60 psi
- Fluid Pressure: 10-15 psi
- Fluid Tip: 0.055-0.70"

**Airless Spray:**
- Pressure: 2200-2600 psi
- Tip: 0.013-0.015"

**Air Assisted Airless:**
- Air Pressure: 10-30 psi
- Fluid Pressure: 1800-2400 psi
- Fluid Tip: 0.013 - 0.015"

**Electrostatic Spray:**
- Reducer for polarity: MAK
- Voltage: 60-85 KV

**HVLP:**
- Air Pressure @ Cap: 8-9psi
- Fluid Pressure: 10-15 psi

**Cleanup:**
Clean tools/equipment immediately after use with MAK, R5K30 or Butyl Acetate, R6K18.

Follow manufacturer's safety recommendations when using any solvent.

### SPECIFICATIONS

**Product Limitations:**
- For good corrosion resistance, a minimum of 1.5 mils dry film is required.
- Apply as a full wet coat, as dry spray gives poor enamel holdout and rough appearance.
- Do not topcoat with polyurethane enamels, catalyzed epoxies, high PVC flat wall paints, or latex coatings.
- On sand blasted surfaces, apply sufficient film thickness to protect the blast profile. This is typically 1 mil more than the blast profile. Multiple coats may be required.
- Because of its fast drying, this product is not recommended for brush application.
- Users should test for critical recoat and system adhesion when topcoating with products containing high strength solvents.
- Coating thickness will increase rapidly during application because of its higher solids. Heavy films will dry slower.

**Performance Tests**
- Substrate: Cleaned steel, primer applied at 1.5 mils dft
- Salt Spray Test: 500 hours
- 45°F Florida Exposure withstands 1 year
- Adhesion: 5B
- 1/8" Conical Mandrel: passes
- Impact Resistance - direct: 40 lbs.
- Impact Resistance - reverse: 8 lbs.

### CAUTIONS

**FOR INDUSTRIAL SHOP APPLICATION**

Thoroughly review product label for safety and cautions prior to using this product. A Material Safety Data Sheet is available from your local Sherwin-Williams facility. Please direct any questions or comments to your local Sherwin-Williams facility.

---

**Note:** Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.
MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
E61A750

PRODUCT NAME
KEM-FLASH® 500 Primer, Light Gray

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>(216) 566-2902</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Emergency</td>
<td>(216) 566-2917</td>
</tr>
<tr>
<td>Transportation Emergency*</td>
<td>(800) 424-9300</td>
</tr>
</tbody>
</table>

*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>% by Weight</th>
<th>CAS Number</th>
<th>Ingredient</th>
<th>Units</th>
<th>Vapor Pressure</th>
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</thead>
<tbody>
<tr>
<td>0.1</td>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>ACGIH TLV 100 PPM</td>
<td>7.1 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV 125 PPM STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 100 PPM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 125 PPM STEL</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>64742-95-6</td>
<td>Light Aromatic Hydrocarbons</td>
<td>ACGIH TLV Not Available</td>
<td>3.8 mm</td>
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<td></td>
<td></td>
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<td>OSHA PEL Not Available</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>108-67-8</td>
<td>1,3,5-Trimethylbenzene</td>
<td>ACGIH TLV 25 PPM</td>
<td>2 mm</td>
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<td></td>
<td></td>
<td></td>
<td>OSHA PEL 25 PPM</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>ACGIH TLV 25 PPM</td>
<td>2.03 mm</td>
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<td></td>
<td></td>
<td>OSHA PEL 25 PPM</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
<td>ACGIH TLV 50 PPM</td>
<td>16 mm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV 75 PPM STEL</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 50 PPM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 75 PPM STEL</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>14807-96-6</td>
<td>Talc</td>
<td>ACGIH TLV 2 mg/m3 as Resp. Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 2 mg/m3 as Resp. Dust</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>471-34-1</td>
<td>Calcium Carbonate</td>
<td>ACGIH TLV 10 mg/m3 as Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 15 mg/m3 Total Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 5 mg/m3 Respirable Fraction</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>7727-43-7</td>
<td>Barium Sulfate</td>
<td>ACGIH TLV 10 mg/m3 as Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 10 mg/m3 Total Dust</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 5 mg/m3 Respirable Fraction</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>13463-67-7</td>
<td>Titanium Dioxide</td>
<td>ACGIH TLV 10 mg/m3 as Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 10 mg/m3 Total Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 5 mg/m3 Respirable Fraction</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

- the liver
- the urinary system
- the reproductive system

**SIGNALS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

---

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

---

**SECTION 5 — FIRE FIGHTING MEASURES**

**FLASH POINT** 65 °F PMCC

**LEL** 0.7

**UEL** 7.5

**FLAMMABILITY CLASSIFICATION** RED LABEL -- Flammable, Flash below 100 °F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

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.

---

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

---

**SECTION 7 — HANDLING AND STORAGE**

**STORAGE CATEGORY**

DOL Storage Class IB

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

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.

---

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

**VENTILATION**
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 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 a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**
Wear safety spectacles with unperforated sideshields.

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

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT WEIGHT</td>
<td>12.78 lb/gal</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.54</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>237 - 360 °F</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>Not Available</td>
</tr>
<tr>
<td>VOLATILE VOLUME</td>
<td>47%</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>Slower than ether</td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>N.A.</td>
</tr>
<tr>
<td>VOLATILE ORGANIC COMPOUNDS</td>
<td>3.24 lb/gal 388 g/l</td>
</tr>
<tr>
<td>(VOC Theoretical - As Packaged)</td>
<td>Less Water and Federally Exempt Solvents</td>
</tr>
<tr>
<td>Emitted VOC</td>
<td>3.24 lb/gal 388 g/l</td>
</tr>
</tbody>
</table>

### SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**
None known.

**INCOMPATIBILITY**
None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**
By fire: Carbon Dioxide, Carbon Monoxide, Phosphoric Acid Fumes, Oxides of Phosphorus

**HAZARDOUS POLYMERIZATION**
Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint.”
### TOXICOLOGY DATA

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient Name</th>
<th>LC50 RAT</th>
<th>LD50 RAT</th>
<th>4HR</th>
<th>Not Available</th>
<th>3500 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Light Aromatic Hydrocarbons</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>108-67-8</td>
<td>1,3,5-Trimethylbenzene</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td>2080 mg/kg</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>Talc</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>471-34-1</td>
<td>Calcium Carbonate</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>7727-43-7</td>
<td>Barium Sulfate</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

### SECTION 13 — DISPOSAL CONSIDERATIONS

**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/Provincial, and Local regulations regarding pollution.

### SECTION 14 — TRANSPORT INFORMATION

**US Ground (DOT)**

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG II, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

- Methylisobutyl ketone 5000 lb RQ
- Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

UN1263, PAINT, 3, PG II, (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

**IMO**

UN1263, PAINT, CLASS 3, PG II, (18 C c.c.), EmS F-E, S-E, ADR (D/E)

### SECTION 15 — REGULATORY INFORMATION

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>CHEMICAL/COMPOUND</th>
<th>% by WT</th>
<th>% Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zinc Compound</td>
<td>7</td>
<td>3.4</td>
</tr>
</tbody>
</table>
CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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.
### SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**  
E61R751

**PRODUCT NAME**  
KEM-FLASH® 500 Primer, Red Oxide

**MANUFACTURER’S NAME**  
THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**
- Regulatory Information: (216) 566-2902
- Medical Emergency: (216) 566-2917
- Transportation Emergency*: (800) 424-9300
  *for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

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<thead>
<tr>
<th>% by Weight</th>
<th>CAS Number</th>
<th>Ingredient</th>
<th>Units</th>
<th>Vapor Pressure</th>
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<td>ACGIH TLV</td>
<td>125 PPM STEL</td>
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<td>OSHA PEL</td>
<td>100 PPM</td>
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<td>OSHA PEL</td>
<td>125 PPM STEL</td>
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<td>3</td>
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<td>Light Aromatic Hydrocarbons</td>
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<td></td>
<td></td>
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<td>OSHA PEL</td>
<td>Not Available</td>
</tr>
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<td>1</td>
<td>108-67-8</td>
<td>1,3,5-Trimethylbenzene</td>
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<td>2 mm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>25 PPM</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>25 PPM</td>
</tr>
<tr>
<td>4</td>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
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<td>2.03 mm</td>
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<td>ACGIH TLV</td>
<td>25 PPM</td>
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<td>OSHA PEL</td>
<td>25 PPM</td>
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<td>14</td>
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<td>16 mm</td>
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<td>ACGIH TLV</td>
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<td>75 PPM STEL</td>
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<td>OSHA PEL</td>
<td>50 PPM</td>
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<td>OSHA PEL</td>
<td>75 PPM STEL</td>
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<td>3</td>
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<td>Talc</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>2 mg/m^3 as Resp. Dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>2 mg/m^3 as Resp. Dust</td>
</tr>
<tr>
<td>26</td>
<td>471-34-1</td>
<td>Calcium Carbonate</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>10 mg/m^3 as Dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>15 mg/m^3 Total Dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>5 mg/m^3 Respirable Fraction</td>
</tr>
<tr>
<td>13</td>
<td>7727-43-7</td>
<td>Barium Sulfate</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>10 mg/m^3 as Dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>10 mg/m^3 Total Dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>5 mg/m^3 Respirable Fraction</td>
</tr>
</tbody>
</table>

### SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**
- INHALATION of vapor or spray mist.  
- EYE or SKIN contact with the product, vapor or spray mist.

**HMIS Codes**
- **Health**: 2*
- **Flammability**: 3
- **Reactivity**: 0
EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:
• the liver
• the urinary system
• the reproductive system

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT: 65 °F PMCC
LEL: 0.7
UEL: 7.5
FLAMMABILITY CLASSIFICATION: RED LABEL -- Flammable, Flash below 100 °F (38 °C)

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
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.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY
DCH Storage Class 1B
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
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.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed “as Dust” in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 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 a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

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

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT WEIGHT</td>
<td>12.83 lb/gal</td>
<td>1537 g/l</td>
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<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.54</td>
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<td>BOILING POINT</td>
<td>237 - 360 °F</td>
<td>113 - 182 °C</td>
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<tr>
<td>MELTING POINT</td>
<td>Not Available</td>
<td></td>
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<tr>
<td>VOLATILE VOLUME</td>
<td>46%</td>
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<tr>
<td>EVAPORATION RATE</td>
<td>Slower than ether</td>
<td></td>
</tr>
<tr>
<td>VAPOUR DENSITY</td>
<td>Heavier than air</td>
<td></td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>N.A.</td>
<td></td>
</tr>
<tr>
<td>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>3.19 lb/gal</td>
<td>383 g/l</td>
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<tr>
<td></td>
<td>3.19 lb/gal</td>
<td>383 g/l</td>
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</table>

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID
None known.

INCOMPATIBILITY
None known.

HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide, Phosphoric Acid Fumes, Oxides of Phosphorus

HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
TOXICOLOGY DATA

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient Name</th>
<th>LC50 RAT</th>
<th>LD50 RAT</th>
<th>4HR</th>
<th>Not Available</th>
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<tbody>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Light Aromatic Hydrocarbons</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
</tr>
<tr>
<td>108-67-8</td>
<td>1,3,5-Trimethylbenzene</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
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<tr>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
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<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
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<td>14807-96-6</td>
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<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
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<td>471-34-1</td>
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<td>LD50 RAT</td>
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<td>Not Available</td>
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<td>7727-43-7</td>
<td>Barium Sulfate</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
<td>4HR</td>
<td>Not Available</td>
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</table>

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

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/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)
1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Methylisobutyl ketone 5000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):
UN1263, PAINT, 3, PG II, (ERG#128)

Canada (TDG)
UN1263, PAINT, CLASS 3, PG II, (ERG#128)

IMO
UN1263, PAINT, CLASS 3, PG II, (18 C c.c.), EmS F-E, S-E, ADR (D/E)

SECTION 15 — REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

<table>
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<tr>
<th>CAS No.</th>
<th>CHEMICAL/COMPOUND</th>
<th>% by WT</th>
<th>% Element</th>
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<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>0.1</td>
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</tr>
<tr>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>14</td>
<td></td>
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<tr>
<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
<td>7</td>
<td>3.4</td>
</tr>
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</table>

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.
SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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.
MATERIAL SAFETY DATA SHEET

E61W753
04 00

DATE OF PREPARATION
Nov 29, 2010

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
E61W753

PRODUCT NAME
KEM-FLASH® 500 Primer, White

MANUFACTURER’S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites
| Regulatory Information | (216) 566-2902 |
| Medical Emergency | (216) 566-2917 |
| Transportation Emergency* | (800) 424-9300 |
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>% by Weight</th>
<th>CAS Number</th>
<th>Ingredient</th>
<th>Units</th>
<th>Vapor Pressure</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>64742-95-6</td>
<td>Light Aromatic Hydrocarbons</td>
<td>ACGIH TLV Not Available</td>
<td>OSHA PEL Not Available</td>
</tr>
<tr>
<td>4</td>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>ACGIH TLV 25 PPM</td>
<td>OSHA PEL 25 PPM</td>
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<tr>
<td>16</td>
<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
<td>ACGIH TLV 50 PPM</td>
<td>ACGIH TLV 75 PPM STEL</td>
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<tr>
<td>6</td>
<td>14807-96-6</td>
<td>Talc</td>
<td>ACGIH TLV 2 mg/m³ as Resp. Dust</td>
<td>OSHA PEL 2 mg/m³ as Resp. Dust</td>
</tr>
<tr>
<td>21</td>
<td>471-34-1</td>
<td>Calcium Carbonate</td>
<td>ACGIH TLV 10 mg/m³ as Dust</td>
<td>OSHA PEL 15 mg/m³ Total Dust</td>
</tr>
<tr>
<td>11</td>
<td>7727-43-7</td>
<td>Barium Sulfate</td>
<td>ACGIH TLV 10 mg/m³ as Dust</td>
<td>OSHA PEL 10 mg/m³ Total Dust</td>
</tr>
<tr>
<td>14</td>
<td>13463-67-7</td>
<td>Titanium Dioxide</td>
<td>ACGIH TLV 10 mg/m³ as Dust</td>
<td>OSHA PEL 10 mg/m³ Total Dust</td>
</tr>
</tbody>
</table>

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:
the liver
the urinary system
the reproductive system

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**
None generally recognized.

**CANCER INFORMATION**
For complete discussion of toxicology data refer to Section 11.

---

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

---

**SECTION 5 — FIRE FIGHTING MEASURES**

**FLASH POINT**
65 °F PMCC

**LEL**
0.7

**UEL**
7.5

**FLAMMABILITY CLASSIFICATION**
RED LABEL -- Flammable, Flash below 100 °F (38 °C)

**EXTINGUISHING MEDIA**
Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**
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.

---

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

---

**SECTION 7 — HANDLING AND STORAGE**

**STORAGE CATEGORY**
DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**
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.

---

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

**PRECAUTIONS TO BE TAKEN IN USE**
Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

**VENTILATION**
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 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 a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**
- Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**
- Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**
- Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT WEIGHT</td>
<td>13.33 lb/gal  1597 g/l</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.60</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>237 - 360 °F  113 - 182 °C</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>Not Available</td>
</tr>
<tr>
<td>VOLATILE VOLUME</td>
<td>48%</td>
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<tr>
<td>EVAPORATION RATE</td>
<td>Slower than ether</td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)**

|CAS No.| Ingredient Name| LC50 RAT 4HR| LD50 RAT|\n|-------|----------------|-------------|--------|
|53367-95-6| Light Aromatic Hydrocarbons| Not Available| Not Available|
|95-63-6| 1,2,4-Trimethylbenzene| LC50 RAT| LD50 RAT| Not Available| Not Available|
|108-10-1| Methyl Isobutyl Ketone| LC50 RAT| LD50 RAT| Not Available| 2080 mg/kg|
|13463-67-7| Talc| LC50 RAT| LD50 RAT| Not Available| Not Available|
|7727-43-7| Barium Sulfate| LC50 RAT| LD50 RAT| Not Available| Not Available|
|13463-67-7| Titanium Dioxide| LC50 RAT| LD50 RAT| Not Available| Not Available|

### SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**
- None known.

**INCOMPATIBILITY**
- None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**
- By fire: Carbon Dioxide, Carbon Monoxide, Phosphoric Acid Fumes, Oxides of Phosphorus

**HAZARDOUS POLYMERIZATION**
- Will not occur

### SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**
- Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient Name</th>
<th>LC50 RAT 4HR</th>
<th>LD50 RAT</th>
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</thead>
<tbody>
<tr>
<td>64742-95-6</td>
<td>Light Aromatic Hydrocarbons</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
</tr>
<tr>
<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Talc</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
</tr>
<tr>
<td>471-34-1</td>
<td>Calcium Carbonate</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
</tr>
<tr>
<td>7727-43-7</td>
<td>Barium Sulfate</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide</td>
<td>LC50 RAT</td>
<td>LD50 RAT</td>
</tr>
</tbody>
</table>
SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

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/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)
1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Methylisobutyl ketone 5000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):
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Canada (TDG)
UN1263, PAINT, CLASS 3, PG II, (ERG#128)

IMO
UN1263, PAINT, CLASS 3, PG II, (18 C c.c.), EmS F-E, S-E, ADR (D/E)

SECTION 15 — REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>CHEMICAL/COMPOUND</th>
<th>% by WT</th>
<th>% Element</th>
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<tr>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>4</td>
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<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
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<tr>
<td></td>
<td>Zinc Compound</td>
<td>6</td>
<td>3.2</td>
</tr>
</tbody>
</table>

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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.
SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
E61B752

PRODUCT NAME
KEM-FLASH® 500 Primer, Black

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>Medical Emergency</th>
<th>Transportation Emergency</th>
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</thead>
<tbody>
<tr>
<td>(216) 566-2902</td>
<td>(216) 566-2917</td>
<td>(800) 424-9300</td>
</tr>
</tbody>
</table>

*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>% by Weight</th>
<th>CAS Number</th>
<th>Ingredient</th>
<th>Units</th>
<th>Vapor Pressure</th>
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<td>0.1</td>
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<td>ACGIH TLV 100 PPM</td>
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<td>ACGIH TLV 125 PPM STEL</td>
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<td></td>
<td></td>
<td></td>
<td>OSHA PEL 100 PPM</td>
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<td></td>
<td></td>
<td></td>
<td>OSHA PEL 125 PPM STEL</td>
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<tr>
<td>1</td>
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<td>1,2,4-Trimethylbenzene</td>
<td>ACGIH TLV 25 PPM</td>
<td>2.03 mm</td>
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<td></td>
<td></td>
<td>OSHA PEL 25 PPM</td>
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<tr>
<td>5</td>
<td>64742-94-5</td>
<td>Medium Aromatic Hydrocarbons</td>
<td>ACGIH TLV Not Available</td>
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<td></td>
<td></td>
<td>OSHA PEL Not Available</td>
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<td>0.7</td>
<td>91-20-3</td>
<td>Naphthalene</td>
<td>ACGIH TLV 10 PPM</td>
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<td>ACGIH TLV 15 PPM STEL</td>
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<td></td>
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<td>OSHA PEL 10 PPM</td>
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<td>OSHA PEL 15 PPM STEL</td>
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<tr>
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<td>108-10-1</td>
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<td>ACGIH TLV 75 PPM STEL</td>
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<td>OSHA PEL 50 PPM</td>
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<td>OSHA PEL 75 PPM STEL</td>
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</tr>
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<td>4</td>
<td>14807-96-6</td>
<td>Talc</td>
<td>ACGIH TLV 2 mg/m3 as Resp. Dust</td>
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<tr>
<td></td>
<td></td>
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<td>OSHA PEL 2 mg/m3 as Resp. Dust</td>
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</tr>
<tr>
<td>29</td>
<td>471-34-1</td>
<td>Calcium Carbonate</td>
<td>ACGIH TLV 10 mg/m3 as Dust</td>
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<tr>
<td></td>
<td></td>
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<td>OSHA PEL 15 mg/m3 Total Dust</td>
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<td>OSHA PEL 5 mg/m3 Respirable Fraction</td>
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</tr>
<tr>
<td>14</td>
<td>7727-43-7</td>
<td>Barium Sulfate</td>
<td>ACGIH TLV 10 mg/m3 as Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL 10 mg/m3 Total Dust</td>
<td></td>
</tr>
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<td></td>
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<td></td>
<td>OSHA PEL 5 mg/m3 Respirable Fraction</td>
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<td>1</td>
<td>1333-86-4</td>
<td>Carbon Black</td>
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<td></td>
<td></td>
<td></td>
<td>OSHA PEL 3.5 MG/M3</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3 — HAZARDS IDENTIFICATION
**ROUTE OF EXPOSURE**
- INHALATION of vapor or spray mist.
- EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.  
**SKIN:** Prolonged or repeated exposure may cause irritation.  
**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.  
Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:  
- the liver  
- the urinary system  
- the reproductive system  

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**  
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.  
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**  
None generally recognized.

**CANCER INFORMATION**  
For complete discussion of toxicology data refer to Section 11.

---

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.  
**SKIN:** Wash affected area thoroughly with soap and water.  
**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.  
**INGESTION:** Do not induce vomiting. Get medical attention immediately.

---

**SECTION 5 — FIRE FIGHTING MEASURES**

**FLASH POINT**  
65 °F PMCC  
**LEL**  
0.8  
**UEL**  
7.5  
**FLAMMABILITY CLASSIFICATION**  
RED LABEL -- Flammable, Flash below 100 °F (38 °C)

**EXTINGUISHING MEDIA**  
Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
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.

---

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
Remove all sources of ignition. Ventilate the area.  
Remove with inert absorbent.

---

**SECTION 7 — HANDLING AND STORAGE**

**STORAGE CATEGORY**  
DOL Storage Class IB

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**  
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.

---

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

**PRECAUTIONS TO BE TAKEN IN USE**  
Use only with adequate ventilation.  
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using. This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 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 a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

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

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE 1</th>
<th>VALUE 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT WEIGHT</td>
<td>12.56 lb/gal</td>
<td>1505 g/l</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.51</td>
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<tr>
<td>BOILING POINT</td>
<td>237 - 415 °F</td>
<td>113 - 212 °C</td>
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<td>MELTING POINT</td>
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<td>VOLATILE VOLUME</td>
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<td>EVAPORATION RATE</td>
<td>Slower than ether</td>
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<tr>
<td>VAPOR DENSITY</td>
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<tr>
<td>SOLUBILITY IN WATER</td>
<td>N.A.</td>
<td></td>
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</table>

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
- 3.24 lb/gal 388 g/l Less Water and Federally Exempt Solvents
- 3.24 lb/gal 388 g/l Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide , Phosphoric Acid Fumes, Oxides of Phosphorus
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans. Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.
TOXICOLOGY DATA

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient Name</th>
<th>LC50 RAT</th>
<th>LD50 RAT</th>
<th>4HR</th>
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<td>100-41-4</td>
<td>Ethylbenzene</td>
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<td>64742-94-5</td>
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<td>91-20-3</td>
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<td>108-10-1</td>
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</table>

SECTION 12 — ECOLOGICAL INFORMATION

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</thead>
<tbody>
<tr>
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<td>0.1</td>
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<td>1,2,4-Trimethylbenzene</td>
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<td>91-20-3</td>
<td>Naphthalene</td>
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<td>108-10-1</td>
<td>Methyl Isobutyl Ketone</td>
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<td></td>
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<tr>
<td></td>
<td>Zinc Compound</td>
<td>7</td>
<td>3.5</td>
</tr>
</tbody>
</table>

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