## Acrylic Enamel System - 3

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Hazardous Ingredients</th>
<th>ACGIH TLV &lt;STEL&gt;</th>
<th>OSHA PEL &lt;STEL&gt;</th>
<th>Units</th>
<th>Pressure (mm Hg)</th>
<th>8853 Urethane Clearcoat</th>
<th>8850 CATYL-AD® Hardener</th>
<th>8870 SUPER CATYL-AD® Hardener</th>
<th>8871 Spot Repair Hardener</th>
<th>8874 HS Low VOC Hardener</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>100</td>
<td>100</td>
<td>PPM</td>
<td>7.1</td>
<td>3</td>
<td>4</td>
<td>7</td>
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<td>1330-20-7</td>
<td>Xylene.</td>
<td>100</td>
<td>100</td>
<td>PPM</td>
<td>5.9</td>
<td>16</td>
<td>20</td>
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<tr>
<td>95-63-6</td>
<td>1,2,4-Trimethylbenzene</td>
<td>25</td>
<td>25</td>
<td>PPM</td>
<td>2.0</td>
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<tr>
<td>67-64-1</td>
<td>Acetone.</td>
<td>500</td>
<td>1000</td>
<td>PPM</td>
<td>180.0</td>
<td>16</td>
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<tr>
<td>110-43-0</td>
<td>Methyl n-Amyl Ketone.</td>
<td>50</td>
<td>100</td>
<td>PPM</td>
<td>2.1</td>
<td>1</td>
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<tr>
<td>123-86-4</td>
<td>n-Butyl Acetate.</td>
<td>150</td>
<td>150</td>
<td>PPM</td>
<td>10.0</td>
<td>31</td>
<td>11</td>
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<td>112-07-2</td>
<td>2-Butoxyethyl Acetate.</td>
<td>Not Established</td>
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<tr>
<td>108-65-6</td>
<td>1-Methoxy-2-Propanol Acetate</td>
<td>Not Established</td>
<td>1.8</td>
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<td></td>
<td>2</td>
<td></td>
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<tr>
<td>28182-81-2</td>
<td>Hexamethylene Diisocyanate Polymer.</td>
<td>0.5</td>
<td>C 1</td>
<td>Mg/M3 Supplier Limit</td>
<td>65</td>
<td>85</td>
<td>40</td>
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<tr>
<td>822-06-0</td>
<td>Hexamethylene Diisocyanate (Max.)</td>
<td>0.005</td>
<td>PPM</td>
<td>0.05</td>
<td>1.2</td>
<td>1.6</td>
<td>0.8</td>
<td>0.2</td>
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<td></td>
</tr>
</tbody>
</table>

- **Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C**

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**Material Safety Data Sheet**

**ACR/N3**

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**Product Identification**
The Martin Senour Co.
101 Prospect Ave. N.W
Cleveland, OH 44115

**Emergency telephone number**
(216) 566-2917

**Information telephone number**
(216) 566-2902

**Date of preparation**
August 17, 1998

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**ACGIH OSHA Vapor 8853 8850 8870 8871 8874**

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**CAS No.**
**Hazardous Ingredients**

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**TLV PEL Units**

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**Pressure (mm Hg)**

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**8853 Urethane Clearcoat**

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**8850 CATYL-AD® Hardener**

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**8870 SUPER CATYL-AD® Hardener**

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**8871 Spot Repair Hardener**

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**8874 HS Low VOC Hardener**

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**Weight per Gallon (lbs.)**

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**VOC (Volatile Organic Compounds) Total - lbs./gal.**

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**VOC Less Water & Federally Exempt Solvents - lbs./gal.**

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**Photochemically Reactive**

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**Flash Point (°F)**

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**DOL Storage Category**

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**Flammability Classification (Flammable - Combustible)**

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**HMIS (NFPA) Rating (health - flammability - reactivity)**

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Section 3 — Physical Data

<table>
<thead>
<tr>
<th>PRODUCT WEIGHT</th>
<th>See TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>0.91-1.16</td>
</tr>
<tr>
<td>BOILING RANGE</td>
<td>132-384 °F</td>
</tr>
<tr>
<td>VOLATILE VOLUME</td>
<td>0-82 %</td>
</tr>
</tbody>
</table>

EVAPORATION RATE: Slower than Ether
VAPOUR DENSITY: Heavier than Air
MELTING POINT: N.A.
SOLUBILITY IN WATER: 0-82 %

Section 4 — Fire And Explosion Hazard Data

FLAMMABILITY CLASSIFICATION: See TABLE
FLASH POINT: LEL 0.5
VAPOR DENSITY: Heavier than Air
MELTING POINT: N.A.
VOLATILE VOLUME: 0-82 %

Section 5 — Health Hazard Data

ACUTE Health Hazards
- Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
- 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
- Hardeners CONTAIN ISOCYANATES. May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

EMERGENCY AND FIRST AID PROCEDURES
- If INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air.
- If problems remain or occur later, IMMEDIATELY get medical attention.
- If on SKIN: Wash affected area thoroughly with soap and water.
- If SWALLOWED: Get medical attention.

Section 6 — Reactivity Data

STABILITY — Stable
CONDITIONS TO AVOID
- None known.
- INCOMPATIBILITY
- Contamination of hardeners with Water, Alcohols, Amines, and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

HAZARDOUS DECOMPOSITION PRODUCTS
- By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of Hydrogen Cyanide

Section 7 — 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.
- If hardener is spilled, all personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

Section 8 — Protection Information

PRECAUTIONS TO BE TAKEN IN USE
- No PERSON should USE THESE PRODUCTS, OR BE IN THE AREA WHERE THESE PRODUCTS ARE BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.
- Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
- These coatings 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
- Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. A properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THESE PRODUCTS ARE BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.
- When sanding or abrading the dried film, wear a particulate respirator approved by NIOSH/MSHA for protection against non-volatile materials in Section 2.
- PROTECTIVE GLOVES
- Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
- EYE PROTECTION
- Use barrier cream on exposed skin.

Section 9 — Precautions

DOL STORAGE CATEGORY — See TABLE.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
- Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Close 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.
- Keep container closed when not in use. Transfer only to approved containers with complete labeling. Use barrier cream on exposed skin.

Section 10 — Other Regulatory Information

CALIFORNIA PROPOSITION 65
WARNING: 8853, 8850 and 8871 contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the products. 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.