## Material Safety Data Sheet

**SETFAST® Traffic Marking Paint (waterborne)**

### Section 2

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Hazardous Ingredients</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Units</th>
<th>Vapor Pressure (mm Hg)</th>
<th>TM225</th>
<th>TM226</th>
<th>TM2116</th>
<th>TM2117</th>
<th>TM2119 Lead Free Yellow</th>
<th>TM2132 Red</th>
<th>TM2133 Blue</th>
<th>TM2135 Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>200 &lt;STEEL&gt;</td>
<td>200 &lt;STEEL&gt;</td>
<td>PPM (Skin)</td>
<td>92.0</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>6</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>471-34-1</td>
<td>Calcium Carbonate.</td>
<td>10 15[5]</td>
<td>Mg/M3 as Dust (Resp. Fraction)</td>
<td>51</td>
<td>53</td>
<td>46</td>
<td>45</td>
<td>50</td>
<td>49</td>
<td>50</td>
<td>49</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide.</td>
<td>10 10[5]</td>
<td>Mg/M3 as Dust (Resp. Fraction)</td>
<td>4</td>
<td>6</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon Black.</td>
<td>3.5 3.5</td>
<td>Mg/M3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1344-37-2</td>
<td>Lead Chromate.</td>
<td>0.05 0.05</td>
<td>Mg/M3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Chromium Compound. [% Chromium]</td>
<td>5 [6.0]</td>
<td>6 [5.9]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Lead Compound. [% Lead]</td>
<td>5 [3.0]</td>
<td>6 [3.5]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight per Gallon (lbs.)</td>
<td>13.44</td>
<td>13.35</td>
<td>12.65</td>
<td>12.70</td>
<td>12.87</td>
<td>12.36</td>
<td>12.56</td>
<td>12.47</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solids by Weight (%)</td>
<td>73.1</td>
<td>73.5</td>
<td>71.3</td>
<td>71.0</td>
<td>73.3</td>
<td>70.0</td>
<td>70.9</td>
<td>70.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solids by Volume (%)</td>
<td>55.5</td>
<td>56.3</td>
<td>54.1</td>
<td>53.6</td>
<td>57.0</td>
<td>54.6</td>
<td>55.4</td>
<td>56.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Water</td>
<td>22.3</td>
<td>21.6</td>
<td>20.9</td>
<td>21.2</td>
<td>21.8</td>
<td>25.5</td>
<td>25.1</td>
<td>25.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC (Volatile Organic Compounds) Total - lbs./gal.</td>
<td>0.59</td>
<td>0.61</td>
<td>0.97</td>
<td>0.97</td>
<td>0.62</td>
<td>0.55</td>
<td>0.48</td>
<td>0.43</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Less Water &amp; Federally Exempt Solvents - lbs./gal.</td>
<td>0.99</td>
<td>0.94</td>
<td>1.42</td>
<td>1.43</td>
<td>0.93</td>
<td>0.88</td>
<td>0.78</td>
<td>0.70</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Photochemically Reactive</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point (°F)</td>
<td>135</td>
<td>135</td>
<td>104</td>
<td>104</td>
<td>135</td>
<td>135</td>
<td>135</td>
<td>135</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMIS (NFPA) Rating (health - flammability - reactivity)</td>
<td>3* - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3* - 2 - 0</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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* Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.66 C

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> MSDS Text Page Follows

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# Material Safety Data Sheet

**Traffic Marking Paint (waterborne)**

**TM-W/2**

<table>
<thead>
<tr>
<th>Section 2: Hazardous Ingredients (percent by weight)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Units Vapor Pressure (mm Hg)</th>
<th>SETFAST</th>
<th>HOT LINE</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>TLV</td>
<td>PEL</td>
<td>&lt;STEEL&gt; &lt;STEEL&gt;</td>
<td>TM2136</td>
<td>TM2137</td>
<td>TM2159</td>
</tr>
<tr>
<td>67-56-1 Methanol</td>
<td>200 PPM</td>
<td>200 PPM</td>
<td>92.0</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>112-34-5 2-(2-Butoxyethoxy)-ethanol</td>
<td>Not Established</td>
<td>0.1</td>
<td>Mg/M3</td>
<td>2</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>1344-67-2 Lead Chromate</td>
<td>0.05</td>
<td>0.05</td>
<td>Mg/M3</td>
<td>6</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>§ Chromium Compound [% Chromium]</td>
<td></td>
<td></td>
<td>Mg/M3</td>
<td>5 [0.6]</td>
<td>4 [0.6]</td>
<td></td>
</tr>
<tr>
<td>§ Lead Compound [% Lead]</td>
<td></td>
<td></td>
<td>Mg/M3</td>
<td>5 [3.0]</td>
<td>4 [2.3]</td>
<td></td>
</tr>
<tr>
<td>Solids by Weight (%)</td>
<td>76.5</td>
<td>76.0</td>
<td>76.8</td>
<td>68.1</td>
<td>69.4</td>
<td>67.2</td>
</tr>
<tr>
<td>Solids by Volume (%)</td>
<td>60.1</td>
<td>59.2</td>
<td>60.8</td>
<td>49.8</td>
<td>51.2</td>
<td>49.6</td>
</tr>
<tr>
<td>Percent Water</td>
<td>18.6</td>
<td>19.2</td>
<td>18.5</td>
<td>27.2</td>
<td>25.5</td>
<td>27.9</td>
</tr>
<tr>
<td>VOC (Volatile Organic Compounds) Total - lbs./gal.</td>
<td>0.66</td>
<td>0.65</td>
<td>0.66</td>
<td>0.58</td>
<td>0.63</td>
<td>0.60</td>
</tr>
<tr>
<td>VOC Less Water &amp; Federally Exempt Solvents - lbs./gal.</td>
<td>0.75</td>
<td>0.95</td>
<td>0.84</td>
<td>1.01</td>
<td>1.05</td>
<td>1.04</td>
</tr>
<tr>
<td>Photochemically Reactive</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Flash Point (°F)</td>
<td>104</td>
<td>104</td>
<td>135</td>
<td>130</td>
<td>130</td>
<td>135</td>
</tr>
<tr>
<td>HMIS (NFPA) Rating (health - flammability - reactivity)</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</td>
<td>3 - 2 - 0</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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**Section 1 - Product Identification**

The Sherwin-Williams Co.
101 Prospect Ave. N.W.
Cleveland, OH 44115

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

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

**Date of preparation**
April 29, 1998

Section 3 - Physical Data

Property Weight: See Table
Specific Gravity: 1.49-1.67
Boiling Range: 449-477°F
P.O.C.: 10-50%
PH: 7.1-9.4

Evaporation Rate: Slower than Ether
Vapor Density: Heavier than Air
Melting Point: N.A.
Solubility in Water: N.A.

Section 4 - Fire and Explosion Hazard Data

Flashpoint: Classification: See Table
FLAMMABILITY Classification: Flash Point: See Table
Flashpoint: Below 95° F and below 200° F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical. Foam

DRUGS & EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flames. 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.

Section 5 - Health Hazard Data

ROUTES OF EXPOSURE
Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use.

TO MINIMIZE EXPOSURE, FOLLOW RECOMMENDATIONS FOR PROPER USE, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT.

ACUTE HEALTH HAZARDS
Irritation of eyes, skin, and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

WG25, TNG117, TG117, and TNG159 CONTAIN LEAD AND CHROMATE:
Acute occupational exposure to Lead is uncommon but results in effects and symptoms similar to chronic overexposure described below. SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headaches, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Rashness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing and warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water.

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

If SWALLOWED: Get medical attention.

CHRONIC HEALTH HAZARDS
WG25, TG117, TG117, and TNG159 CONTAIN LEAD AND CHROMATE:
Chronic overexposure to Lead may result in damage to the blood-forming, nervous, urinary, and reproductive systems (including embryotoxic effects). Symptoms include abdominal discomfort or pain, constipation, loss of appetite, metallic taste, nausea, insomnia, nervous irritability, weakness, muscle and joint pains, headaches, and dizziness. Chromates are listed by IARC and NTP. Although studies have associated exposure to Chromates with an increased risk of respiratory cancer, available evidence indicates that Lead Chromate (Chrome Yellow, Holochrome Orange) does NOT present this hazard.

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.

Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes birth defects in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems. Routes exposed to titanium dioxide dust at 250 mg/m3 developed lung cancer, however, such exposure levels are not attainable in the workplace. Repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section 6 - Reactivity Data

STABILITY: Stable
CONDITIONS TO AVOID: None known.
INCOMPATIBILITY: None known.

Section 7 - Spill or Leak Procedures

HOW TO PREVENT FIRE OR EXPLOSIONS:
Remove all sources of ignition. Ventilate and remove with inert absorbent.

HAZARDS DISPOSAL METHOD:
Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability. Determine the applicable EPA hazardous waste number. TG25, TNG117, TNG137, and TNG159 must also be tested for extractability.

In case of bulk accident, use water spray to minimize dust formation. Do not incinerate closed containers. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section 8 - Protection Information

PRECAUTIONS TO BE TAKEN IN CASE OF SPILL OR LEAK:

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 150 TGL 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction). ONHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

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. PROTECTIVE GLOVES:
Wear gloves which are recommended by glove supplier for protection against materials in Section 3.

EYE PROTECTION:
Wear safety spectacles with unperforated side shields.

Section 9 - Precautions

DOT STORAGE CLASSIFICATION: 2
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Keep from heat and open flames.

IF EXPOSED TO THE PRODUCT, USE THE FOLLOWING PROCEDURES:
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 store or use inside containments. Keep out of the reach of children.

OTHER PRECAUTIONS:
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.

Section 10 - Other Regulatory Information

CALIFORNIA PROPOSITION 65:
WARNING: WG25, TNG117, TNG137, TNG153, and TNG159 contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. TNG114, TNG117, TNG137, TNG139, TNG153, TNG152, TNG159, and TNG160, and TNG161 contain a chemical known to the State of California to cause cancer.

TSCA CERTIFICATION:
All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

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 significantly 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.