# Material Safety Data Sheet

**Company:** Sherwin-Williams Diversified Brands, Inc.

**Address:**
- Krylon/Sprayon Industrial Products
- 31500 Solon Road
- Solon, OH 44139

**Emergency Telephone No.:**
- (216) 566-2917
- (800) 777-2966

**Information Telephone No.:**
- Sprayon Industrial
- (800) 247-3266

**Preparation Date:**
- 15-Aug-96

**Engine Paints**

| CAS No. | Hazardous Ingredient | ACGIH TLV (ppm) | OSHA PEL (ppm) | Units | Pressure (mm Hg) | 1611 Universal Gray | 1612 Universal Black | 1619 Cast Iron Gray | 1705 Engine Gold | 1908 Chevy Blue | 1999 Ford Blue | 1923 Ford Dark Blue | 1928 Chrysler Blue |
|---------|----------------------|-----------------|----------------|-------|-----------------|---------------------|---------------------|-------------------|----------------|---------------|---------------|----------------|-----------------|-----------------|
| 74-98-6 | Propane              | 1000            | 1000           | PPM   | 760.0           | 20                  | 18                  | 15                | 18              | 20            | 20            | 20             | 20              |
| 106-97-8 | Butane              | 800             | 800            | PPM   | 760.0           | 15                  |                     |                   |                 |               |               |                 |                 |
| 1330-20-7 | Xylene            | 100             | 100            | PPM   | 5.9             | 9                   |                     |                   |                 |               |               |                 |                 |
| 100-41-4 | Ethylbenzene       | 100             | 100            | PPM   | 7.1             | 2                   |                     |                   |                 |               |               |                 |                 |
| 110-54-3 | Hexane             | 50              | 50             | PPM   | 127.0           | 12                  | 13                  | 12                | 11              | 12            | 12            | 12             | 12              |
| 107-83-5 | Isohexane Isomers | 500             | 500            | <1000 | 1250           | 8                   | 8                   | 8                 | 8               | 8             | 8             | 8              | 8               |
| 64742-89-8 | V. M. & P. Naphthe | 500             | 500            | PPM   | 12.0            | 16                  | 20                  | 18                | 17              | 17            | 17            | 17             | 17              |
| 67-64-1 | Acetone            | 750             | 750            | <1000 | 1800           | 20                  | 25                  | 31                | 26              | 23            | 23            | 23             | 21              |
| 108-65-6 | 1-Methoxy-2-Propanol Acetate | 1.8 | | Not Established | | | | | | | | | | |
| 13463-67-7 | Titanium Dioxide | 10             | 10[5]         | Mg/M3 as Dust | | 3.0                  | 1                   | 1.9                | 2.5             |              |               |                 |                 |
| 14607-96-6 | Talc                | 2              | 2             | Mg/M3 as Resp. Dust | | | | | | | | | | |

**Weight per Gallon (lbs.):**
- VOC as percent by weight per BAAQMD Rule 49
- VOC (Volatile Organic Compounds) Total - lbs./gal.
- HMIS (NFPA) Rating (health - flammability - reactivity)

<table>
<thead>
<tr>
<th></th>
<th>6.05</th>
<th>5.00</th>
<th>6.25</th>
<th>6.03</th>
<th>6.02</th>
<th>6.05</th>
<th>6.02</th>
<th>6.08</th>
</tr>
</thead>
<tbody>
<tr>
<td>65.3</td>
<td>63.7</td>
<td>49.4</td>
<td>60.0</td>
<td>63.3</td>
<td>64.9</td>
<td>63.4</td>
<td>64.5</td>
<td></td>
</tr>
<tr>
<td>3.93</td>
<td>3.78</td>
<td>3.09</td>
<td>3.60</td>
<td>3.60</td>
<td>3.61</td>
<td>3.81</td>
<td>3.91</td>
<td></td>
</tr>
<tr>
<td>2' 4 0</td>
<td>2' 4 0</td>
<td>2' 4 0</td>
<td>2' 4 0</td>
<td>2' 4 0</td>
<td>2' 4 0</td>
<td>2' 4 0</td>
<td>2' 4 0</td>
<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**

---

**MSDS Text Page Follows**
Engine Paints

Section III — PHYSICAL DATA

PRODUCT WEIGHT — N.A.
SPECIFIC GRAVITY — N.A.
BOILING RANGE — 40-325°F
SOLUBILITY IN WATER — N.A.
EVAPORATION RATE — Faster than Ether
VAPOR DENSITY — Heavier than Air
HEATING POINT — N.A.

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION — Flash Point
EXTREMELY FLAMMABLE, Flash below 21°F
FLASH POINT — 40°F MMCC
LEL 9.9 UEL 11.1
EXTREMELY FLAMMABLE, Flash below 21°F

Section V — 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
EFFECTS OF OVEREXPOSURE
Irritation of eyes, skin and respiratory system. May cause nervous system depressions.

EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
- Headache, dizziness, nausea, and loss of coordination are indices of exposure to a toxic substance.
- Symptoms may include difficulty breathing, vomiting, and convulsions.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

IF INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. Do not try to induce vomiting. Remove all contaminated clothing and immediately rinse areas of contact with soap and water.

IF ON SKIN: Wash affected area thoroughly with soap and water. Rinse contaminated clothing and immediately launder.

IF IN EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention immediately. Remove any contact lenses and rinse eyes with clean water.

IF SWALLOWED: Never give anything by mouth to an unconscious person. Do not induce vomiting. Give several glasses of water. Seek medical attention immediately.

CHRONIC Health Hazards
No information on the chronic health effects of this product is available.

Prolonged and repeated exposure to Methyl Ethyl Ketone may cause damage to the liver, kidneys, blood-forming organs, respiratory system, and reproductive system.

DOSAGE TOxicITY DATA
A rat exposed to titanium dioxide dust at 250 mg./m³ developed lung cancer, however, such exposure levels are not attainable in workplaces.

Reports have associated repeated and prolonged exposure to solvents with permanent brain and nervous system damage.

Section VI — REACTIVITY DATA

STABILITY — Stable
INCOMPATIBILITY — None known.

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 (40 CFR 261). Waste must be tested for leachability to determine the applicable RCRA hazardous waste number. Waste from products containing Methyl Ethyl Ketone may also require testing for extractability.

DO NOT INCINERATE. DECOMPOSE CONTAINERS. 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.

These coatings may contain materials that are classified as nuisance particulates (listed as "Dust" in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are 0.10 mg./m³ (total dust), OSHA PEL 15 mg./m³ (total dust), 5 mg./m³ (respirable fraction).

Ventilation is required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION
Wear safety spectacles with unpolarized side shields.

Section IX — PRECAUTIONS

DOL STORAGE CATEGORY — 1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Containers are EXCESSIVELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone, keep area ventilated. Do not smoke. Keep away from flammables. Do not work lightly. Do not wear woolen, flannel, or heavy coats. Turn off electric tools and appliances, and any other source of ignition.

Consult NFPA Code. Use approved bonding and grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 110°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources can cause spontaneous combustion. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

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

Section X — OTHER REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

WARNING: The following products listed on this document contain a chemical(s) known to the State of California to cause cancer: 1611, 1612, 1705, 1909, 1909, 1923 and 1928.

WARNING: The following products listed on this document contain a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm: 1870.

TSCA CERTIFICATION

All chemicals in this product are listed, or are except from listing, on the TSCA inventory.

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 the 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.
| CAS No. | HAZARDOUS INGREDIENT          | ACGIH TLV <STEL> | OSHA PEL <STEL> | Units | Vapor Pressure (mm Hg) | 1930 G.M. Blue  | 2007 Ford Green | 2013 G.M. Alpine Green | 2106 Ford Red | 2111 Chrysler Red | 2114 Buick Red | 2405 Chevy Red | Orange | ENG2/KRI |
|---------|-------------------------------|------------------|-----------------|-------|------------------------|----------------|----------------|-------------------|----------------|----------------|----------------|-------------|---------|
| 74-98-6 | Propane                       | 1000             | 800             | PPM   | 760.0                  | 20             | 20             | 20                | 14             | 20             | 20             | 15          | 15      |
| 106-97-8 | Butane                        | 800              | 800             | PPM   | 760.0                  | 12             | 12             | 12                | 10             | 11             | 11             | 8           | 15      |
| 110-54-3 | Hexane                        | 50               | 50              | PPM   | 127.0                  | 12             | 12             | 12                | 10             | 11             | 11             | 8           | 8       |
| 107-83-5 | Isohexane Isomers             | 50               | 50              | PPM   | 127.0                  | 8              | 8              | 8                 | 6              | 7              | 7              | 8           | 8       |
| 64742-89-8 | V. M. & P. Naphtha     | 300              | 300             | PPM   | 12.0                   | 17             | 17             | 17                | 20             | 17             | 17             | 10          | 10      |
| 64742-88-7 | Mineral Spirits         | 100              | 100             | PPM   | 2.0                    | 2              |                |                    |                |                |                |             |         |
| 100-41-4 | Ethylbenzene                 | 100              | 100             | PPM   | 7.1                    | 1              |                |                    |                |                |                |             |         |
| 1330-20-7 | Xylene                      | 100              | 100             | PPM   | 5.0                    | 6              |                |                    |                |                |                |             |         |
| 67-64-1 | Acetone                      | 100              | 100             | PPM   | 180.0                  | 21             | 21             | 21                | 26             | 23             | 21             | 37          | 37      |
| 108-85-6 | 1-Methoxy-2-Propanol Acetate | Not Established |                |       |                        | 1.8            | 8              | 8                 | 8              | 8              | 8              |             |         |
| 13463-57-7 | Titanium Dioxide            | 10              | 10              | Mg/M3 as Dust           | 2.0            |                |                    |                |                |                |             |         |
|         | Cobalt Compound [% Cobalt] |                  |                 |       |                        |                |                |                    |                |                |                |             |         |

Weight per Gallon (lbs.) 6.07 6.02 6.08 6.26 6.08 6.01 5.98
Solids by Weight (%) 14.0 14.3 14.3 12.6 13.7 14.5 16.1
VOC (Volatile Organic Compounds) Total - lbs./gal. 3.93 3.88 3.91 3.83 3.87 3.88 2.80
HMIS (NFPA) Rating (health - flammability - reactivity) 2' 40 2' 40 2' 40 2' 40 2' 40 2' 40 2' 40

Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C
Engine Paints - 2

Section III — PHYSICAL DATA

<table>
<thead>
<tr>
<th>PRODUCT PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>H.A.</td>
</tr>
<tr>
<td>ROILING RANGE</td>
<td>&lt;0-125°F</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>H.A.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PHENOMENA</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>CLASSIFIED AS FLAMMABLE</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&lt;0°F PHCC</td>
</tr>
<tr>
<td>LEL</td>
<td>0.9</td>
</tr>
<tr>
<td>UEL</td>
<td>13.1</td>
</tr>
</tbody>
</table>

Section IV — FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA

- Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

- Essential fire, 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.

Section V — 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

- EXPOSURE LIMITS
  - TWA 8-HOUR 8-HOUR
  - 8-HOUR

- EFFECTS OF OVEREXPOSURE
  - Irritation of eyes, skin and respiratory system. May cause nervous system depression.
  - Extreme overexposure may result in unconsciousness and possibly death.

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

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

- Home generally recognized.

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 in Section II. May cause adverse effects to the liver, urinary, blood-forming, cardiovascular, and reproductive systems.
- IF IN EYES: Flush eyes with large amounts of water for 15 minutes. If medical attention is required, do not induce vomiting. Give several glasses of water. Seek medical attention.

- CHRONIC Health Hazards
  - No ingredient in these products in an IARC, NTP or OSHA listed carcinogen.
  - Prolonged overexposure to hexane may cause damage to nerve tissue of the arm and leg (peripheral neuropathy), resulting in muscle weakness and loss of sensation. This effect may be increased by the presence of Methyl Ethyl Ketone.
  - Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Section VI — REACTIVITY DATA

STABILITY

- Stable

INCOMPATIBILITY

- None known.

HAZARDOUS DECOMPOSITION PRODUCTS

- By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMORPHIZATION - 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

- Material from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) CFR 261. Waste must be treated for landfills to determine the applicable EPA hazardous waste number. Waste from products containing Methyl Ethyl Ketone may also require testing for extractability. Do not incinerate. Depressurize 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 use.
- These coatings may contain materials classified as nuisance particulates (listed as Dust) in Section III which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are 10 mg/m³ (total dust). 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 II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.100, 1910.101, 1910.108.

Section IX — PRECAUTIONS

DOL STORAGE CATEGORY - IA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

- Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame.
- Vapors may accumulate readily and may ignite explosively.
- During use and until all vapors are gone, keep area ventilated. Do not smoke in proximity of all flammables, pilot lights, and heaters. Turn off stoves, electric tools and appliances, and any other source of ignition.

- Cleanly hooding and grounding procedures.
- Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other hot sources could cause container to burst. Do not take internally. Keep out of reach of children.

OTHER PRECAUTIONS

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

Section X — OTHER REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

WARNING: The following products listed on this document contain a chemical known to the State of California to cause cancer: 1907, 2035, 2036, 2037, 2130, and 2144.

WARNING: The following products listed on this document contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm: 2405

TSCA CERTIFICATION

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

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.