

SECTION I  
PRODUCT IDENTIFICATION



MATERIAL SAFETY DATA SHEET

THE SHERWIN-WILLIAMS CO.  
101 PROSPECT AVE. N.W.  
CLEVELAND, OH 44115

EMERGENCY TELEPHONE NO.  
(216) 566-2917  
INFORMATION TELEPHONE NO.  
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DATE OF PREPARATION  
1 - Jul - 95

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Industrial Enamel

B54

Numbers in Boxes Are  
Percent By Weight

| CAS No.                                                   | HAZARDOUS INGREDIENT<br>(percent by weight)             | ACGIH TLV <STEL> |       | OSHA PEL <STEL> | Units                          | Vapor Pressure (mm Hg) | B54W101<br>Pule<br>White   | B54W102<br>Midione<br>Base | B54W103<br>Dexphone<br>Base | B54T104<br>Ultrasep<br>Base | B54A12<br>Tovar<br>Grey | B54A13<br>Siale<br>Grey   | B54B11<br>Black            |
|-----------------------------------------------------------|---------------------------------------------------------|------------------|-------|-----------------|--------------------------------|------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------|---------------------------|----------------------------|
|                                                           |                                                         | C 60             | C 50  |                 |                                |                        |                            |                            |                             |                             |                         |                           |                            |
| 107-21-1                                                  | Ethylene Glycol.                                        | 100              | 100   |                 | PPM                            | 0.1                    |                            |                            |                             |                             |                         |                           |                            |
| 64742-47-8                                                | Mineral Spirits.                                        | 2                | 2     |                 | Mg/M3 as Resp. Dust            | 2.0                    | 40                         | 40                         | 40                          | 43                          | 42                      | 42                        | 44                         |
| 14807-86-6                                                | Talc                                                    | 10               | 15[5] |                 | Mg/M3 as Dust [Resp. Fraction] |                        | 5                          |                            |                             |                             |                         |                           |                            |
| 471-34-1                                                  | Calcium Carbonate.                                      | 10               | 10[5] |                 | Mg/M3 as Dust [Resp. Fraction] |                        | 15                         | 10                         | 12                          | 16                          | 9                       | 9                         | 8                          |
| 13463-67-7                                                | Titanium Dioxide.                                       | 3.5              | 3.5   |                 | Mg/M3 as Dust                  |                        |                            |                            |                             |                             | 10                      | 10                        |                            |
| 1303-86-4                                                 | Carbon Black.                                           |                  |       |                 | Mg/M3 as Dust                  |                        |                            |                            |                             |                             |                         |                           | 2                          |
|                                                           | Weight per Gallon (lbs.)                                |                  |       |                 |                                |                        | 8.04                       | 8.83                       | 8.85                        | 8.35                        | 8.69                    | 8.67                      | 8.07                       |
|                                                           | Solids by Weight (%)                                    |                  |       |                 |                                |                        | 58.5                       | 58.9                       | 58.7                        | 55.2                        | 57.3                    | 56.9                      | 54.6                       |
|                                                           | Solids by Volume (%)                                    |                  |       |                 |                                |                        | 42.6                       | 43.1                       | 42.7                        | 41.4                        | 41.8                    | 41.4                      | 42.6                       |
|                                                           | Volatile Organic Compounds (VOC - lbs./gal.)            |                  |       |                 |                                |                        | 3.87                       | 3.63                       | 3.66                        | 3.74                        | 3.71                    | 3.74                      | 3.66                       |
|                                                           | Photochemically Reactive                                |                  |       |                 |                                |                        | No                         | No                         | No                          | No                          | No                      | No                        | No                         |
|                                                           | Flash Point (°F)                                        |                  |       |                 |                                |                        | 101                        | 101                        | 101                         | 101                         | 102                     | 102                       | 101                        |
|                                                           | HMIS (NFPA) Rating (health - flammability - reactivity) |                  |       |                 |                                |                        | 2 2 0                      | 2 2 0                      | 2 2 0                       | 2 2 0                       | 2 2 0                   | 2 2 0                     | 2 2 0                      |
| SECTION II<br>HAZARDOUS INGREDIENT<br>(percent by weight) |                                                         | ACGIH TLV <STEL> |       | OSHA PEL <STEL> | Units                          | Vapor Pressure (mm Hg) | B54E36<br>Safety<br>Orange | B54G14<br>Cedar<br>Green   | B54N16<br>Walnut<br>Brown   | B54R15<br>Deck<br>Red       | B54R36<br>Safety<br>Red | B54W10<br>Bright<br>White | B54Y37<br>Safety<br>Yellow |
| CAS No.                                                   | HAZARDOUS INGREDIENT<br>(percent by weight)             | 100              | 100   |                 |                                |                        |                            |                            |                             |                             |                         |                           |                            |
| 64742-88-7                                                | Mineral Spirits.                                        | 10               | 15[5] |                 | Mg/M3 as Dust [Resp. Fraction] | 2.0                    | 42                         | 44                         | 46                          | 42                          | 42                      | 37                        | 42                         |
| 471-34-1                                                  | Calcium Carbonate.                                      | 10               | 10[6] |                 | Mg/M3 as Dust [Resp. Fraction] |                        | 10                         |                            |                             | 1                           | 3                       | 21                        | 13                         |
| 13463-67-7                                                | Titanium Dioxide.                                       | 0.5              | 0.5   |                 | Mg/M3                          |                        |                            |                            |                             |                             |                         |                           |                            |
| 1308-38-9                                                 | Chromium Oxide                                          |                  |       |                 |                                |                        |                            |                            |                             |                             |                         |                           |                            |
|                                                           | Chromium Compound [% Chromium]                          |                  |       |                 |                                |                        |                            | 3[2.2]                     |                             |                             |                         |                           |                            |
|                                                           | Weight per Gallon (lbs.)                                |                  |       |                 |                                |                        | 8.38                       | 8.16                       | 8.15                        | 8.68                        | 8.28                    | 9.95                      | 8.62                       |
|                                                           | Solids by Weight (%)                                    |                  |       |                 |                                |                        | 56.6                       | 54.4                       | 53.2                        | 56.4                        | 58.3                    | 80.9                      | 57.0                       |
|                                                           | Solids by Volume (%)                                    |                  |       |                 |                                |                        | 43.0                       | 41.6                       | 40.1                        | 40.9                        | 43.2                    | 42.8                      | 41.8                       |
|                                                           | Volatile Organic Compounds (VOC - lbs./gal.)            |                  |       |                 |                                |                        | 3.63                       | 3.72                       | 3.82                        | 3.78                        | 3.62                    | 3.66                      | 3.71                       |
|                                                           | Photochemically Reactive                                |                  |       |                 |                                |                        | No                         | No                         | No                          | No                          | No                      | No                        | No                         |
|                                                           | Flash Point (°F)                                        |                  |       |                 |                                |                        | 101                        | 101                        | 101                         | 101                         | 104                     | 102                       | 101                        |
|                                                           | HMIS (NFPA) Rating (health - flammability - reactivity) |                  |       |                 |                                |                        | 2 2 0                      | 2 2 0                      | 2 2 0                       | 2 2 0                       | 2 2 0                   | 2 2 0                     | 2 2 0                      |

§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.85 C

## Section III — PHYSICAL DATA

**PRODUCT WEIGHT** — See Table  
**SPECIFIC GRAVITY** — 0.96-1.05  
**SOLUBILITY** — Insoluble in water  
**VOLATILE VOLUME** — 19-59 %

## Section IV — FIRE AND EXPLOSION HAZARD DATA

**FLAMMABILITY CLASSIFICATION** — FLASH POINT See Table  
 All products, except B54Z437 are combustible, flash above 99 and below 200 °F  
 B54Z437: \*\* RED LABEL — Flammable, flash below 100 °F

**EXTINGUISHING MEDIA**  
 Dry Chemical, Foam

**ORGANIC PEROXIDE AND EXPLOSION HAZARDS**  
 Keep containers tightly closed. Isolate from 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**  
**EFFECTS OF OVEREXPOSURE**  
 Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**SYMPTOMS OF OVEREXPOSURE**  
 Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

**Medical Conditions Aggravated by Exposure**  
 Allergic reactions to isocyanates

**EMERGENCY AND FIRST AID PROCEDURES**  
**If INHALED:** If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Remove contaminated clothing and launder before re-use. Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**If SWALLOWED:** Get medical attention.

**CHRONIC Health Hazards**  
 No ingredient in these products is an IARC, NTP, or OSHA listed carcinogen. Chromium III (in B54G4 only) is considered the active species in cancer induction, but Chromium III compounds do not cross the cell wall. However, there is some evidence that Chromium III compounds of respirable particle size may be taken up by the cells in the lung. Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, and reproductive systems.

**Health Effects:** Ketone may increase the nervous system effects of other solvents. 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. Data exposed to titanium dioxide dust at 250 mg./ml developed lung cancer, however, such exposure levels are not achievable in the workplace.

**Reproductive Effects:** Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

## Section VI — REACTIVITY DATA

**STABILITY** — Stable  
**CONDITIONS TO AVOID**  
 None known  
**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.  
**HAZARD 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 number. Waste from products contain Methyl Ethyl Ketone may also require testing for extractability.  
 Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

## Section VIII — PROTECTION INFORMATION

**PRECAUTIONS TO BE TAKEN IN USE**  
 Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.  
 These coatings may contain materials 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 ACGIH TLV 10 mg./m<sup>3</sup> (total dust), OSHA PEL 15 mg./m<sup>3</sup> (total dust), 5 mg./m<sup>3</sup> (respirable fraction).  
 Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.  
**RESPIRATORY PROTECTION**  
 If personal exposure to vapors/particulate respirator approved by NIOSH/MSHA for protection a properly fitted, powered respirator cannot be controlled below applicable limits by ventilation, wear eye protection in Section II.  
 When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from these products, underlying paint, or the abrasive.  
**PROTECTIVE GLOVES**  
 Wear gloves which are recommended by glove supplier for protection against materials in Section II.  
**EYE PROTECTION**  
 Wear safety spectacles with unperforated side shields.

## Section IX — PRECAUTIONS

**DOZ STORAGE CATEGORY** — All products except B54Z437 are 2  
 B54Z437 only are 3

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**  
 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.  
**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:** These products contain a chemical(s) known to the State of California to cause cancer.

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(4), for similar complex mixtures.

The above information pertains to 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 warranty, express or implied, and assume no liability in connection with any use of this information.