SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B58T604

PRODUCT NAME
MACROPOXY® 646 Fast Cure Epoxy Coating (Part A), Ultradeep Base

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

Telephone Numbers and Websites
<table>
<thead>
<tr>
<th>Product Information</th>
<th>(800) 524-5979</th>
<th><a href="http://www.sherwin-williams.com">www.sherwin-williams.com</a></th>
</tr>
</thead>
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<tr>
<td>Regulatory Information</td>
<td>(216) 566-2902</td>
<td><a href="http://www.paintdocs.com">www.paintdocs.com</a></td>
</tr>
<tr>
<td>Medical Emergency</td>
<td>(216) 566-2917</td>
<td></td>
</tr>
<tr>
<td>Transportation Emergency*</td>
<td>(800) 424-9300</td>
<td></td>
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*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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<tbody>
<tr>
<td>3</td>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td></td>
<td>7.1 mm</td>
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<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>100 PPM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>125 PPM STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>100 PPM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>125 PPM STEL</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>1330-20-7</td>
<td>Xylene</td>
<td></td>
<td>5.9 mm</td>
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<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>100 PPM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>150 PPM STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>100 PPM</td>
<td></td>
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<td></td>
<td></td>
<td>OSHA PEL</td>
<td>150 PPM STEL</td>
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<tr>
<td>1</td>
<td>90-72-2</td>
<td>Tri(dimethylaminomethyl)phenol</td>
<td></td>
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<td></td>
<td></td>
<td>ACGIH TLV</td>
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<td></td>
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<td>OSHA PEL</td>
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<td></td>
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<tr>
<td>12</td>
<td>68410-23-1</td>
<td>Polyamide</td>
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<td></td>
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<td></td>
<td>ACGIH TLV</td>
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<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
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<td></td>
</tr>
<tr>
<td>0.2</td>
<td>14808-60-7</td>
<td>Quartz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>0.025 mg/m3 as Resp. Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>0.1 mg/m3 as Resp. Dust</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>14807-96-6</td>
<td>Talc</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>2 mg/m3 as Resp. Dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>2 mg/m3 as Resp. Dust</td>
<td></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: Causes burns.
SKIN: Causes burns.
INHALATION: Causes burns 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**
May cause allergic skin reaction in susceptible persons or skin sensitization.

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

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**SECTION 4 — FIRST AID MEASURES**

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

**SKIN:** Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
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.

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**SECTION 5 — FIRE FIGHTING MEASURES**

**FLASH POINT** | **LEL** | **UEL** | **FLAMMABILITY CLASSIFICATION**
--- | --- | --- | ---
73 °F | 1.0 | 7.0 | 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.

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**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.

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**SECTION 7 — HANDLING AND STORAGE**

**STORAGE CATEGORY**
DOL Storage Class IC

**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.

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

**PRECAUTIONS TO BE TAKEN IN USE**
Use only with adequate ventilation.
Do not get in eyes, or on skin or clothing. Do not breathe vapor or 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**
To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**
To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**
Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

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><strong>PRODUCT WEIGHT</strong></td>
<td>10.97 lb/gal 1314 g/l</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY</strong></td>
<td>1.32</td>
</tr>
<tr>
<td><strong>BOILING POINT</strong></td>
<td>277 - 292 °F 136 - 144 °C</td>
</tr>
<tr>
<td><strong>MELTING POINT</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>VOLATILE VOLUME</strong></td>
<td>27%</td>
</tr>
<tr>
<td><strong>EVAPORATION RATE</strong></td>
<td>Slower than ether</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY</strong></td>
<td>Heavier than air</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN WATER</strong></td>
<td>N.A.</td>
</tr>
</tbody>
</table>

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)**
- 1.94 lb/gal 232 g/l Less Water and Federally Exempt Solvents
- 1.94 lb/gal 232 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

**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. Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

**TOXICOLOGY DATA**

| CAS No. | Ingredient Name                      | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | CAS No. | Ingredient Name                      | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT | LC50 RAT | LD50 RAT |
|---------|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 100-41-4| Ethylbenzene                         |          |          | 4HR      | Not Available | 3500 mg/kg |          |          |          |          |          |          | 1330-20-7| Xylene                                      |          |          |          | 4HR      | Not Available | 5000 ppm | 4300 mg/kg |          |          |          |          |          |
| 1330-20-7| Xylene                                |          |          | 4HR      | Not Available | 5000 ppm | 1653 mg/kg |          |          |          |          |          | 14808-60-7| Quartz                                      |          |          |          | 4HR      | Not Available |          | Not Available |          |          |          |          |          |
| 90-72-2  | Tri(dimethylaminomethyl)phenol        |          |          | 4HR      | Not Available | 1653 mg/kg |          |          |          |          |          | 14807-96-6| Talc                                        |          |          |          | 4HR      | Not Available |          | Not Available |          |          |          |          |          |
| 68410-23-1| Polyamide                             |          |          | 4HR      | Not Available |          |          |          |          |          |          | 14807-96-6| Talc                                        |          |          |          | 4HR      | Not Available |          | Not Available |          |          |          |          |          |
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

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)
5 Liters (1.3 Gallons) and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Ethyl benzene 100 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):
RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)
UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

IMO
5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity.
UN1263, PAINT, CLASS 3, PG III, (23 C c.c.), EmS F-E, S-E, ADR (D/E)

IATA/ICAO
UN1263, PAINT, 3, PG III

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>
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<tbody>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Xylene</td>
<td>15</td>
<td></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.