Material Safety Data Sheet

**DuPont™ Surfaces Sealant**

Version 2.0

Revision Date 09/11/2014  
Ref. 130000000807

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product name</th>
<th>DuPont™ Surfaces Sealant</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDS Number</td>
<td>130000000807</td>
</tr>
<tr>
<td>Product Use</td>
<td>Adhesives and/or sealants</td>
</tr>
</tbody>
</table>
| Manufacturer          | DuPont Building Innovations  
1007 Market Street  
Wilmington, DE 19898 |

| Product Information   | 1-302-774-1000            |
| Medical Emergency     | 1-800-441-3637 (outside the U.S. 1-302-774-1139) |
| Transport Emergency   | CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887) |
| Other information     | professional use          |

**SECTION 2. HAZARDS IDENTIFICATION**

**Potential Health Effects**

**Skin**

- Dimethyl Silicone Hydroxy-Terminated: May cause skin irritation. May cause: Discomfort, itching, redness, or swelling.
- Methylsilanetriyl triacetate: Causes severe skin burns. May cause: Corrosion with pain, ulceration or blisters, cracking or peeling of skin., Damage may be permanent..
- Titanium dioxide: May cause skin irritation. May cause: Discomfort, itching, redness, or swelling.
- Carbon black: May cause skin irritation. May cause: Discomfort, itching, redness, or swelling.

**Eyes**
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**Dimethyl Silicone Hydroxy-Terminated**
- May cause eye irritation.
- May cause: Tearing, redness, or discomfort.

**Silicon dioxide, amorphous**
- May cause eye irritation. May cause: Tearing, redness, or discomfort.

**Methylsilanetriyl triacetate**
- Causes eye irritation. May cause: Tearing, pain, redness, swelling, ulceration, visual impairment, or blindness. May cause irreversible eye damage.

**Carbon black**
- Dust contact with the eyes can lead to mechanical irritation.

**Inhalation**
- Methylsilanetriyl triacetate
  - Causes respiratory tract irritation. May cause: Cough, sneezing, runny nose, sore throat, or shortness of breath.

**Repeated exposure**
- Methylsilanetriyl triacetate
  - Adverse effects from repeated inhalation may include: altered blood chemistry

**Target Organ**
- Methylsilanetriyl triacetate
  - Blood

**Carcinogenicity**
- **Material**
  - IARC
  - NTP
  - OSHA

<table>
<thead>
<tr>
<th>Material</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
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<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C.I. Pigment Green 50</td>
<td>2B</td>
<td>X</td>
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</table>

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
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<tbody>
<tr>
<td>Dimethyl Silicone Hydroxy-Terminated</td>
<td>70131-67-8</td>
<td>70 - 90 %</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>Silicon dioxide, amorphous</td>
<td>7631-86-9</td>
<td>7-13%</td>
</tr>
<tr>
<td>Triacetoxyethyilsilane</td>
<td>17689-77-9</td>
<td>1-5%</td>
</tr>
<tr>
<td>Methylsilanetriyl triacetate</td>
<td>4253-34-3</td>
<td>1-5%</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>&lt;=0.9%</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>&lt;=0.6%</td>
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<tr>
<td>C.I. Pigment Green 50</td>
<td>68186-85-6</td>
<td>&lt;=0.3%</td>
</tr>
</tbody>
</table>

**SECTION 4. FIRST AID MEASURES**

- **Skin contact**: Remove immediately adhering matter. Wash off with warm water and soap.
- **Eye contact**: Immediately flush eyes for at least 15 minutes. Get medical attention.
- **Inhalation**: No hazards which require special first aid measures.
- **Ingestion**: Immediately give plenty of water (if possible charcoal slurry). Consult a physician if necessary.

**SECTION 5. FIREFIGHTING MEASURES**

- **Flammable Properties**: > 100 °C (> 212 °F) closed cup
- **Suitable extinguishing media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Wear personal protective equipment. Avoid contact with skin and eyes.
Spill Cleanup : Scrape up.
Accidental Release Measures : Do not let product enter drains.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin and eyes. Do not breathe vapour. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
Storage : Keep tightly closed in a dry, cool and well-ventilated place. No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use only in area provided with appropriate exhaust ventilation.
Personal protective equipment
  Respiratory protection : No personal respiratory protective equipment normally required.
  Hand protection : Additional protection: not required
  Eye protection : Safety glasses

Exposure Guidelines
Exposure Limit Values

Silicon dioxide, amorphous
Permissible (OSHA) 20 millions of particles per cubic foot of air TWA
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**exposure limit:**

**Permissible exposure limit:**

(OSHA) 0.8 mg/m³ TWA

**Remarks**

The exposure limit is calculated from the equation, \(80/(%\text{SiO}_2)\), using a value of 100% SiO_2. Lower values of % SiO_2 will give higher exposure limits.

**Titanium dioxide**

Permissible exposure limit:

(OSHA) 15 mg/m³ 8 hr. TWA Total dust.

**TLV**

(ACGIH) 10 mg/m³ TWA

**AEL ***

(DUPONT) 10 mg/m³ 8 & 12 hr. TWA Total dust.

**AEL ***

(DUPONT) 5 mg/m³ 8 & 12 hr. TWA Respirable dust.

**Carbon black**

Permissible exposure limit:

(OSHA) 3.5 mg/m³ 8 hr. TWA

**TLV**

(ACGIH) 3 mg/m³ TWA Inhalable fraction.

**AEL ***

(DUPONT) 0.5 mg/m³ 8 & 12 hr. TWA Polynuclear Aromatic Hydrocarbons (PAH) < 0.1%

C.I. Pigment Green 50

**TLV**

(ACGIH) 0.02 mg/m³ TWA as Co

**Biological Exposure Indices**

**C.I. Pigment Green 50**

**BEI**

(ACGIH) 1 µg/l Cobalt/Blood

Sampling time: End of shift at end of work week.

**BEI**

(ACGIH) 15 µg/l Cobalt/Urine

Sampling time: End of shift at end of work week.

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>paste</td>
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<tr>
<td>Color</td>
<td>various</td>
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<tr>
<td>Odor</td>
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<tr>
<td>pH</td>
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<tr>
<td>Density</td>
<td>1.01 - 1.05 g/cm³</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

- **Incompatibility**: Strong oxidizing agents, Humid air, Water
- **Hazardous decomposition products**: Halogenated compounds, Carbon dioxide (CO2), Smoke

SECTION 11. TOXICOLOGICAL INFORMATION

**DuPont™ Surfaces Sealant**
- Further information: no data available

**Dimethyl Silicone Hydroxy-Terminated**
- Dermal LD50: > 15,520 mg/kg, Rabbit
- Oral LD50: > 62,080 mg/kg, Rat
- Skin irritation: No skin irritation, Rabbit slight irritation Information given is based on data obtained from similar substances.
- Eye irritation: Mild eye irritation, Rabbit Information given is based on data obtained from similar substances.
- Repeated dose toxicity: Oral multiple species
  - No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

**Silicon dioxide, amorphous**
- Dermal LD50: > 5,000 mg/kg, Rabbit
Oral LD50 : > 5,000 mg/kg, Rat

Inhalation : Rat
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Skin irritation : No skin irritation, Rabbit
Eye irritation : No eye irritation, Rabbit
Skin sensitization : Does not cause skin sensitisation, human
Repeated dose toxicity : Oral
                      : Rat
                      : No toxicologically significant effects were found.
Carcinogenicity : Not classifiable as a human carcinogen.
                      : Animal testing did not show any carcinogenic effects.
Mutagenicity : Animal testing did not show any mutagenic effects.
                      : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity : No toxicity to reproduction
                      : Animal testing showed no reproductive toxicity.
Teratogenicity : Animal testing showed no developmental toxicity.

Methylsilanetriyl triacetate
Dermal LD50 : 1,060 mg/kg, Rabbit
Information given is based on data obtained from similar substances.

Oral LD50 : 1,602 mg/kg, Rat

Inhalation 4 h LC50 : 11.4 mg/l, Rat
Target Organs: Respiratory Tract
Respiratory tract irritation
Information given is based on data obtained from similar substances.

Skin irritation : Causes burns, Rabbit
Eye irritation : Severe eye irritation, Rabbit
Repeated dose toxicity:  Inhalation
  Rat

Target Organs: Blood altered blood chemistry, Information given is based on data obtained from similar substances.

Mutagenicity:  Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Reproductive toxicity:  No toxicity to reproduction
  Animal testing showed no reproductive toxicity.
  Information given is based on data obtained from similar substances.

Teratogenicity:  Animal testing showed no developmental toxicity.
  Information given is based on data obtained from similar substances.

Titanium dioxide

Dermal LD50:  > 10,000 mg/kg, Rabbit
Oral LD50:  > 5,000 mg/kg, Rat
Inhalation 4 h LC50:  > 6.82 mg/l, Rat
Skin irritation:  No skin irritation, Rabbit
Eye irritation:  No eye irritation, Rabbit
Skin sensitization:  Does not cause skin sensitisation, Guinea pig
  Does not cause respiratory sensitisation, Mouse

Repeated dose toxicity:  Oral
  Rat

No toxicologically significant effects were found.

Carcinogenicity:  Not classifiable as a human carcinogen.
  Overall weight of evidence indicates that the substance is not carcinogenic.

Mutagenicity:  Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity: No toxicity to reproduction
No effects on or via lactation
Evidence suggests the substance is not a reproductive toxin in animals.

Teratogenicity: Evidence suggests the substance is not a developmental toxin in animals.

Carbon black
Oral LD50: > 8,000 mg/kg, Rat
Skin irritation: slight irritation, Rabbit
Eye irritation: Slight or no eye irritation, Rabbit
Carcinogenicity: Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.

Mutagenicity: Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
Dimethyl Silicone Hydroxy-Terminated
96 h LC50: Lepomis macrochirus (Bluegill sunfish) 622 mg/l
Information given is based on data obtained from similar substances.

Silicon dioxide, amorphous
96 h LC50: Danio rerio (zebra fish) 10,000 mg/l OECD Test Guideline 203

72 h ErC50: Desmodesmus subspicatus (green algae) > 10,000 mg/l OECD Test Guideline 201
Information given is based on data obtained from similar substances.

72 h NOEC: Desmodesmus subspicatus (green algae) 10,000 mg/l
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Methylsilanetriyl triacetate

96 h LC50 : Danio rerio (zebra fish) 251 mg/l  Directive 67/548/EEC, Annex V, C.1. Information given is based on data obtained from similar substances.

72 h EC50 : Desmodesmus subspicatus (green algae) 73 mg/l  Information given is based on data obtained from similar substances.

72 h NOEC : Desmodesmus subspicatus (green algae) 54 mg/l  Information given is based on data obtained from similar substances.

48 h EC50 : Daphnia magna (Water flea) 62 mg/l  Directive 67/548/EEC, Annex V, C.2. Information given is based on data obtained from similar substances.

Titanium dioxide

96 h LC50 : Pimephales promelas (fathead minnow) > 1,000 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 10,000 mg/l  see user defined free text

72 h NOEC : Algae 5,600 mg/l  see user defined free text

48 h EC50 : Daphnia magna (Water flea) > 100 mg/l  OECD Test Guideline 202

Carbon black

96 h LC50 : Zebra fish > 1,000 mg/l  OECD Test Guideline 203

72 h EC50 : Algae > 10,000 mg/l

24 h EC50 : Daphnia magna (Water flea) > 5,600 mg/l  OECD Test Guideline 202

Environmental Fate

Dimethyl Silicone Hydroxy-Terminated Bioaccumulation : Does not bioaccumulate.

Methylsilanetriyl triacetate Biodegradability : 74 %  OECD Test Guideline 301C Readily biodegradable. Information given is based on data obtained from similar substances.

Bioaccumulation : Bioaccumulation is unlikely.
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Carbon black
  Biodegradability : Product is not expected to be biodegradable.
  Bioaccumulation : Bioaccumulation is unlikely.
  Additional ecological information : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Can be incinerated, when in compliance with local regulations.

Environmental Hazards : If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s) : C.I. Pigment Green 50

CERCLA Reportable Quantity : 333 lbs
  Based on the percentage composition of this chemical in the product:
  C.I. Pigment Green 50

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer. Titanium dioxide, Carbon black, C.I. Pigment Green 50

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Silicon dioxide, amorphous

NJ Right to Know : Substances on the New Jersey Workplace Hazardous Substance List
Regulated Chemical(s) present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Silicon dioxide, amorphous, Carbon black, C.I. Pigment Green 50

SECTION 16. OTHER INFORMATION
Restrictions for use: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.

Before use read DuPont's safety information.
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Significant change from previous version is denoted with a double bar.