



DuPont™ Surfaces Sealant

Version 2.0

Revision Date 09/11/2014

Ref. 13000000807

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

Product name : DuPont™ Surfaces Sealant
 MSDS Number : 13000000807

Product Use : Adhesives and/or sealants

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 : May cause skin irritation.
 Hydroxy-Terminated : 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
Titanium dioxide	2B		
Carbon black	2B		
C.I. Pigment Green 50	2B	X	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Dimethyl Silicone Hydroxy-Terminated	70131-67-8	70 - 90 %


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Silicon dioxide, amorphous	7631-86-9	7 - 13 %
Triacetoxyethylsilane	17689-77-9	1 - 5 %
Methylsilanetriyl triacetate	4253-34-3	1 - 5 %
Titanium dioxide	13463-67-7	<=0.9 %
Carbon black	1333-86-4	<=0.6 %
C.I. Pigment Green 50	68186-85-6	<=0.3 %

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
- Flash point : > 100 °C (> 212 °F) closed cup
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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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, $80/(\%SiO_2)$, using a value of 100% SiO₂. Lower values of % SiO₂ 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.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : paste
 Color : various
 Odor : acidic
 pH : no data available
 Density : 1.01 - 1.05 g/cm³

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

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 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


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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


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- 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.



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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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Information given is based on data obtained from similar substances.

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



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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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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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