

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

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### SECTION 1. IDENTIFICATION

Product name : DOWSIL™ 3-1953 Conformal Coating

Product code : 04026304

#### Manufacturer or supplier's details

Company Identification : THE DOW CHEMICAL COMPANY  
2030 WILLARD H DOW CENTER  
MIDLAND MI 48674-0000  
UNITED STATES

Telephone : 800-258-2436

24-Hour Emergency Contact : Chemtrec +1 800-424-9300

Local Emergency Number : 800-424-9300

E-mail address : SDSQuestion@dow.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Coatings  
Corrosion inhibitors  
Electrical industry and electronics

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 3

Skin sensitization : Category 1

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.  
H317 May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

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## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
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P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

Static-accumulating flammable liquid.

|| Vapors may form explosive mixture with air.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Silicone elastomer

### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Methyltrimethoxysilane	1185-55-3	>= 3 - <= 4
Diisopropoxy di(ethoxyacetoacetyl) titanate	27858-32-8	>= 1.9 - <= 2.2
Aminomethoxysilane	Trade secret	>= 1.4 - <= 1.7

## SECTION 4. FIRST AID MEASURES

|| General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

|| If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.

|| In case of skin contact : In case of contact, immediately flush skin with plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

---

- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- Notes to physician : Treat symptomatically and supportively.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.  
Flash back possible over considerable distance.  
Vapors may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Silicon oxides  
Formaldehyde  
Metal oxides  
Nitrogen oxides (NO<sub>x</sub>)
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protection : Remove all sources of ignition.

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## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
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---

- tive equipment and emergency procedures      Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
- Environmental precautions      :      Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up      :      Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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### SECTION 7. HANDLING AND STORAGE

- Technical measures      :      Ensure all equipment is electrically grounded before beginning transfer operations. This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations. Restrict flow velocity in order to reduce the accumulation of static electricity.
- Local/Total ventilation      :      Use with local exhaust ventilation. Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential
- Advice on safe handling      :      Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment

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## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
 Date of first issue: 11/13/2014

Non-sparking tools should be used.  
 Keep container tightly closed.  
 Keep away from water.  
 Protect from moisture.  
 Keep away from heat and sources of ignition.  
 Take precautionary measures against static discharges.  
 Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.  
 Keep tightly closed.  
 Keep in a cool, well-ventilated place.  
 Store in accordance with the particular national regulations.  
 Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:  
 Strong oxidizing agents  
 Organic peroxides  
 Flammable solids  
 Pyrophoric liquids  
 Pyrophoric solids  
 Self-heating substances and mixtures  
 Substances and mixtures which in contact with water emit flammable gases  
 Explosives  
 Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyltrimethoxysilane	1185-55-3	TWA	7.5 ppm	DCC OEL

#### Hazardous components without workplace control parameters

Ingredients	CAS-No.
Diisopropoxy di(ethoxyacetoacetyl) titanate	27858-32-8
Aminomethoxysilane	Trade secret

#### Occupational exposure limits of decomposition products

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 325 mg/m <sup>3</sup>	NIOSH REL

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
 Date of first issue: 11/13/2014

		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA Z-1
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		ST	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z-1

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
 Minimize workplace exposure concentrations.  
 Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential  
 Use with local exhaust ventilation.

**Personal protective equipment**

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand protection**

**Material** : Chemical-resistant gloves

**Remarks** : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.

**Eye protection** : Wear the following personal protective equipment:  
 Safety glasses

**Skin and body protection** : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

---



potential.  
Wear the following personal protective equipment:  
Flame retardant antistatic protective clothing, unless assessment demonstrates that the risk of explosive atmospheres or flash fires is low  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.  
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.  
For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com)) or contact the Dow Chemical customer service group.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : Straw-colored

Odor : fruity

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : 64.7 °C

Flash point : 35 °C  
Method: Seta closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Self-ignition : The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
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---

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 0.97

Solubility(ies)  
Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : 400 mPa.s

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

Particle size : Not applicable

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Flammable liquid and vapor.  
Vapors may form explosive mixture with air.  
Use at elevated temperatures may form highly hazardous compounds.  
Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed upon contact with water or humid air.  
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Exposure to moisture.  
Handling operations that can promote accumulation of static charges.  
Heat, flames and sparks.

Incompatible materials : Oxidizing agents  
Water

#### Hazardous decomposition products

Contact with water or humid : Methanol



# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
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air      Propan-2-ol  
Thermal decomposition      :      Formaldehyde

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Ingredients:

##### **Methyltrimethoxysilane:**

Acute oral toxicity      :      LD50 (Rat): 12.3 ml/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity      :      LC50 (Rat): > 42.1 mg/l  
Exposure time: 6 h  
Test atmosphere: vapor  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: On basis of test data.

Acute dermal toxicity      :      LD50 (Rabbit): > 9,500 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: On basis of test data.

##### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Acute oral toxicity      :      LD50 (Rat): 23,020 mg/kg

Acute inhalation toxicity      :      LC50 (Rat): > 173 mg/l  
Exposure time: 6 h  
Test atmosphere: vapor  
Remarks: Based on data from similar materials

Acute dermal toxicity      :      LD50 (Rabbit): 12,870 mg/kg  
Remarks: Based on data from similar materials

##### **Aminomethoxysilane:**

Acute oral toxicity      :      LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: On basis of test data.

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

---

Acute dermal toxicity : LD50 (Rabbit): > 2000 ml/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: On basis of test data.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Ingredients:**

#### **Methyltrimethoxysilane:**

Species: Rabbit  
Result: No skin irritation  
Remarks: On basis of test data.

#### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Species: Rabbit  
Result: No skin irritation

#### **Aminomethoxysilane:**

Species: Rabbit  
Result: No skin irritation  
Remarks: On basis of test data.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Ingredients:**

#### **Methyltrimethoxysilane:**

Species: Rabbit  
Result: No eye irritation  
Remarks: On basis of test data.

#### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Species: Rabbit  
Result: Irritation to eyes, reversing within 21 days

#### **Aminomethoxysilane:**

Species: Rabbit  
Result: Irritation to eyes, reversing within 21 days  
Remarks: On basis of test data.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

---

### Ingredients:

#### **Methyltrimethoxysilane:**

Assessment: Probability or evidence of low to moderate skin sensitization rate in humans

Test Type: Buehler Test

Species: Guinea pig

Result: positive

Remarks: On basis of test data.

#### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Routes of exposure: Skin contact

Species: Guinea pig

Result: negative

#### **Germ cell mutagenicity**

Not classified based on available information.

### Ingredients:

#### **Methyltrimethoxysilane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: On basis of test data.

Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Result: positive  
Remarks: On basis of test data.

Test Type: Chromosome aberration test in vitro  
Result: positive  
Remarks: On basis of test data.

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Result: negative  
Remarks: On basis of test data.

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

#### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

#### **Aminomethoxysilane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: On basis of test data.

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

---

Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: On basis of test data.

### **Carcinogenicity**

Not classified based on available information.

#### **IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information.

#### **Ingredients:**

##### **Methyltrimethoxysilane:**

- Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat, male and female  
Application Route: Ingestion  
Symptoms: No effects on fertility.  
Remarks: On basis of test data.
- Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat, male and female  
Application Route: Ingestion  
Symptoms: No effects on fetal development.  
Remarks: On basis of test data.
- Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

##### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

- Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

### **STOT-single exposure**

Not classified based on available information.

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

---

### Ingredients:

#### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Assessment: May cause drowsiness or dizziness.

#### **STOT-repeated exposure**

Not classified based on available information.

### Ingredients:

#### **Methyltrimethoxysilane:**

Routes of exposure: inhalation (vapor)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Routes of exposure: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

#### **Repeated dose toxicity**

### Ingredients:

#### **Methyltrimethoxysilane:**

Species: Rat

Application Route: inhalation (vapor)

Remarks: On basis of test data.

Species: Rat

Application Route: Ingestion

Remarks: On basis of test data.

#### **Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Species: Rat

NOAEL: 86.7 mg/l

Application Route: inhalation (vapor)

Exposure time: 13 Weeks

Remarks: Based on data from similar materials

#### **Aspiration toxicity**

Not classified based on available information.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

### Ingredients:

#### **Methyltrimethoxysilane:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 110 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia sp. (Water flea)): > 122 mg/l

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

aquatic invertebrates      Exposure time: 48 h  
Toxicity to algae      : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 120 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Toxicity to microorganisms      : EC50: > 100 mg/l  
Method: OECD Test Guideline 209

### Diisopropoxy di(ethoxyacetoacetyl) titanate:

Toxicity to fish      : LC50 (Pimephales promelas (fathead minnow)): 11,130 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials  
Toxicity to algae      : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
Remarks: Based on data from similar materials

### Aminomethoxysilane:

Toxicity to fish      : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: On basis of test data.

### Persistence and degradability

#### Ingredients:

#### Diisopropoxy di(ethoxyacetoacetyl) titanate:

Biodegradability      : Result: Readily biodegradable.  
Biodegradation: 66 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
Remarks: Based on data from similar materials

#### Aminomethoxysilane:

Biodegradability      : Result: Not readily biodegradable.  
Biodegradation: 48.1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Ingredients:

#### Methyltrimethoxysilane:

Partition coefficient: n-      : log Pow: -2.36  
octanol/water

#### Diisopropoxy di(ethoxyacetoacetyl) titanate:

Partition coefficient: n-      : log Pow: 0.05

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

---

|| octanol/water

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Resource Conservation and Recovery Act (RCRA) : When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Waste Code : D001: Ignitability

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(Methyltrimethoxysilane, Organo Titanate)

|| Class : 3  
|| Packing group : III  
|| Labels : 3

#### IATA-DGR

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(Methyltrimethoxysilane, Organo Titanate)

|| Class : 3  
|| Packing group : III  
|| Labels : Flammable Liquids  
|| Packing instruction (cargo aircraft) : 366  
|| Packing instruction (passenger aircraft) : 355

#### IMDG-Code

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.

---

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

(Methyltrimethoxysilane, Organo Titanate)  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 1993  
Proper shipping name : Flammable liquids, n.o.s.  
(Methyltrimethoxysilane, Organo Titanate)

Class : 3  
Packing group : III  
Labels : FLAMMABLE LIQUID  
ERG Code : 128  
Marine pollutant : no

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Hazard not otherwise classified (physical hazards)  
Respiratory or skin sensitization

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

Dimethyl siloxane, trimethoxysilyl-terminated	Not Assigned
Dimethyl Siloxane, Dimethylvinylsiloxy-terminated	68083-19-2
Methyltrimethoxysilane	1185-55-3
Methanol	67-56-1



# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating



Version 5.0      Revision Date: 03/09/2018      SDS Number: 751098-00013      Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

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### California Prop. 65

WARNING: This product can expose you to chemicals including Methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### The ingredients of this product are reported in the following inventories:

- NZIoC : All ingredients listed or exempt.
- TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
- AICS : All ingredients listed or exempt.
- IECSC : All ingredients listed or exempt.
- ENCS/ISHL : Consult your local Dow Chemical office.
- KECI : All ingredients listed, exempt or notified.
- PICCS : All ingredients listed or exempt.
- REACH : For purchases from Dow Chemical EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Chemical legal entities with the intention to export into EEA please contact your DC representative/local office.
- DSL : This product contains one or more substances which are not on the Canadian Domestic Substances List (DSL). Import of this product into Canada has volume limitations. For volume limits please consult Dow Chemical Regulatory Compliance.
- TCSI : All ingredients listed or exempt.

# SAFETY DATA SHEET

## DOWSIL™ 3-1953 Conformal Coating

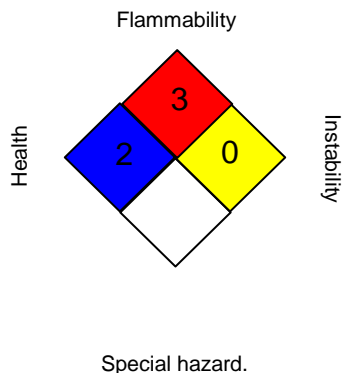


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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- DCC OEL : Dow Chemical Guide
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- DCC OEL / TWA : Time weighted average
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration;

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n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 03/09/2018

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8