

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

### SECTION 1. IDENTIFICATION

Product name : DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

Product code : 000000000004018283

#### Manufacturer or supplier's details

Company name of supplier : Dow Corning Corporation

Address : South Saginaw Road  
Midland Michigan 48686

Telephone : (989) 496-6000

Emergency telephone : 24 Hour Emergency Telephone : (989) 496-5900  
CHEMTREC : (800) 424-9300

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

Recommended use : Coatings  
Corrosion inhibitors  
Electrical industry and electronics

### 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.

# SAFETY DATA SHEET

DOW CORNING

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

Version  
5.0

Revision Date:  
09/13/2017

SDS Number:  
751098-00013

Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

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.

## SAFETY DATA SHEET

**DOW CORNING**

### DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

- |   |   |
|---|---|
|   | Thoroughly clean shoes before reuse.  |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.  |
| If swallowed  | : If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>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.   |

#### SECTION 5. FIRE-FIGHTING MEASURES

- |  |   |
|--|---|
| Suitable extinguishing media                   | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>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.<br>Flash back possible over considerable distance.<br>Vapors may form explosive mixtures with air.<br>Exposure to combustion products may be a hazard to health.             |
| Hazardous combustion products                  | : Carbon oxides<br>Silicon oxides<br>Formaldehyde<br>Metal oxides<br>Nitrogen oxides (NOx)  |
| Specific extinguishing methods                 | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.  |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

## SAFETY DATA SHEET

**DOW CORNING**

### DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.  
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.

#### 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

**SAFETY DATA SHEET****DOW CORNING****DOW CORNING(R) 3-1953 CONFORMAL  
COATING BLADDER PAK**Version  
5.0Revision Date:  
09/13/2017SDS Number:  
751098-00013Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

practice, based on the results of the workplace exposure assessment  
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	NIOSH REL

## SAFETY DATA SHEET

DOW CORNING

DOW CORNING(R) 3-1953 CONFORMAL  
COATING BLADDER PAKVersion  
5.0Revision Date:  
09/13/2017SDS Number:  
751098-00013Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

		ST	260 mg/m <sup>3</sup> 250 ppm 325 mg/m <sup>3</sup>	NIOSH REL
		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 DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

### Safety glasses

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

## 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.

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
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

### 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.



# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

Incompatible materials : Oxidizing agents  
Water

### Hazardous decomposition products

Contact with water or humid air : Methanol  
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

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

Version  
5.0

Revision Date:  
09/13/2017

SDS Number:  
751098-00013

Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

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.

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

# SAFETY DATA SHEET

DOW CORNING

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

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.

### 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.

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

### 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.

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

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

Version  
5.0

Revision Date:  
09/13/2017

SDS Number:  
751098-00013

Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

Species: Rabbit  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

### STOT-single exposure

Not classified based on available information.

#### 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.

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

### 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 aquatic invertebrates	: EC50 (Daphnia sp. (Water flea)): > 122 mg/l 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
------------------	---

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Ingredients:

##### Methyltrimethoxysilane:

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

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

Partition coefficient: n-octanol/water : log Pow: 0.05

### Mobility in soil

No data available

### Other adverse effects

No data available

## 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.

## 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

**SAFETY DATA SHEET****DOW CORNING****DOW CORNING(R) 3-1953 CONFORMAL  
COATING BLADDER PAK**

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

**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. (Methyltrimethoxysilane, Organo Titanate)
Class	: 3
Packing group	: III
Labels	: 3
EmS Code	: F-E, <u>S-E</u>
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.

<b>SARA 311/312 Hazards</b>	: Flammable (gases, aerosols, liquids, or solids) Hazard not otherwise classified (physical hazards)
-----------------------------	---



# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

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

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, Dimethylvinylsiloxyl-terminated	68083-19-2
Methyltrimethoxysilane	1185-55-3
Methanol	67-56-1

#### 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 Corning office.
KECI	: All ingredients listed, exempt or notified.
PICCS	: All ingredients listed or exempt.
REACH	: For purchases from Dow Corning 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 Corning 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 Corning Regulatory Compliance.
TCSI	: All ingredients listed or exempt.

# SAFETY DATA SHEET

**DOW CORNING**

## DOW CORNING(R) 3-1953 CONFORMAL COATING BLADDER PAK

Version  
5.0

Revision Date:  
09/13/2017

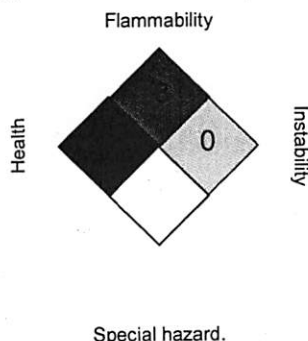
SDS Number:  
751098-00013

Date of last issue: 03/21/2017  
Date of first issue: 11/13/2014

### 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 "0" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
DCC OEL	:	Dow Corning 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

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

50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; 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; VPB - 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 : 09/13/2017

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.