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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

### Product identifier

| Product No.: | Product name:                             | Common name(s), synonym(s)                                      |
|--------------|-------------------------------------------|-----------------------------------------------------------------|
| 365985       | TUBE MICRO<br>W/MICROGARD PST MTGN        | BD Microtainer® PST™ Tubes with<br>LH (Lithium Heparin)         |
| 36598599     | TUBE MICRO<br>W/MICROGARD PST MTGN        | BD Microtainer® PST™ Tubes with<br>LH (Lithium Heparin)         |
| 365987       | TUBE MICRO<br>W/MICROGARD PST<br>MTGN/AMB | BD Microtainer® PST™ Tubes with<br>LH (Lithium Heparin) - Amber |

### Recommended restrictions

**Recommended use:** Scientific and industrial laboratory use. For In Vitro Diagnostic Use.  
**Restrictions on use:** For External Use Only

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 1 Becton Drive  
Franklin Lakes, NJ 07417  
USA

Telephone: 1 800 631 0174  
Fax: 1 201 847 4866  
Contact Person: Technical Services  
E-mail: productcomplaints@bd.com

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

Not classified

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.



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**Hazard Statement:** Not applicable  
**Precautionary Statements** Not applicable

**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical Identity                                        | Common name and synonyms | CAS number | Content in percent (%) <sup>*</sup> |
|----------------------------------------------------------|--------------------------|------------|-------------------------------------|
| Silane, dichlorodimethyl-, reaction products with silica | No data available.       | 68611-44-9 | 3.9973%                             |
| Titanium oxide (TiO <sub>2</sub> )                       | No data available.       | 13463-67-7 | 0.015%                              |

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Description of necessary first-aid measures

|                                                                              |                                                                                                                   |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>General information:</b>                                                  | Get medical attention if symptoms occur.                                                                          |
| <b>Inhalation:</b>                                                           | Move into fresh air and keep at rest. Treat symptomatically. Get medical attention if symptoms occur.             |
| <b>Skin Contact:</b>                                                         | Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. |
| <b>Eye contact:</b>                                                          | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.             |
| <b>Ingestion:</b>                                                            | Rinse mouth thoroughly. Never give liquid to an unconscious person. Get medical attention if symptoms occur.      |
| <b>Personal Protection for First-aid Responders:</b>                         | No data available.                                                                                                |
| <b>Most important symptoms and effects, both acute and delayed Symptoms:</b> | No data available.                                                                                                |



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**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Get medical attention if symptoms occur.

## 5. Fire-fighting measures

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

### **Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** None known.

**Special hazards arising from the substance or mixture:** None known.

### **Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** See Section 8 of the SDS for Personal Protective Equipment.

**Accidental release measures:** No data available.  
**Methods and material for containment and cleaning up:** Sweep or scoop up and remove. Prevent runoff from entering drains, sewers, or streams.

**Environmental Precautions:** Do not release into the environment.

## 7. Handling and storage

### **Handling**

**Technical measures (e.g. Local and general ventilation):** Observe good industrial hygiene practices. Low hazard for recommended handling by trained personnel.

**Safe handling advice:** Wear appropriate personal protective equipment. Low hazard for recommended handling by trained personnel.



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**Contact avoidance measures:** No data available.

**Storage**

**Safe storage conditions:** Keep containers tightly closed. Keep the container in a safe place. Keep in a cool, well-ventilated place.

**Safe packaging materials:** No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

| Chemical Identity                                                                | Type    | Exposure Limit Values   | Source                                                                                       |
|----------------------------------------------------------------------------------|---------|-------------------------|----------------------------------------------------------------------------------------------|
| Silane, dichlorodimethyl-, reaction products with silica                         | AN ESL  | 0.27 µg/m <sup>3</sup>  | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended  |
|                                                                                  | ST ESL  | 14 µg/m <sup>3</sup>    | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended  |
| Silane, dichlorodimethyl-, reaction products with silica - Respirable particles. | TWA     | 3 mg/m <sup>3</sup>     | US. ACGIH Threshold Limit Values, as amended                                                 |
| Silane, dichlorodimethyl-, reaction products with silica - Inhalable particles.  | TWA     | 10 mg/m <sup>3</sup>    | US. ACGIH Threshold Limit Values, as amended                                                 |
| Silane, dichlorodimethyl-, reaction products with silica                         | REL     | 6 mg/m <sup>3</sup>     | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                                      |
|                                                                                  | IDLH    | 3,000 mg/m <sup>3</sup> | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended                 |
| Silane, dichlorodimethyl-, reaction products with silica - Respirable fraction.  | TWA     | 5 mg/m <sup>3</sup>     | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                                          |
| Silane, dichlorodimethyl-, reaction products with silica - Total dust.           | TWA     | 15 mg/m <sup>3</sup>    | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                                          |
|                                                                                  | TWA     | 15 mg/m <sup>3</sup>    | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended                     |
| Silane, dichlorodimethyl-, reaction products with silica - Respirable fraction.  | TWA     | 5 mg/m <sup>3</sup>     | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended                     |
|                                                                                  | TWA PEL | 5 mg/m <sup>3</sup>     | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended |
| Silane, dichlorodimethyl-, reaction products with silica - Total dust.           | TWA PEL | 10 mg/m <sup>3</sup>    | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended |
| Silane, dichlorodimethyl-, reaction products with silica                         | TWA     | 0.8 mg/m <sup>3</sup>   | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended                                            |
|                                                                                  | TWA     | 20 millions             | US. OSHA Table Z-3 (29 CFR 1910.1000), as                                                    |



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|                                                                                 |        |                                                |                                                                                             |
|---------------------------------------------------------------------------------|--------|------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                                                                 |        | of particles per cubic foot of air             | amended                                                                                     |
| Silane, dichlorodimethyl-, reaction products with silica - Total dust.          | TWA    | 15 mg/m <sup>3</sup>                           | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended                                           |
| Silane, dichlorodimethyl-, reaction products with silica - Respirable fraction. | TWA    | 5 mg/m <sup>3</sup>                            | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended                                           |
|                                                                                 | TWA    | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended                                           |
| Silane, dichlorodimethyl-, reaction products with silica - Total dust.          | TWA    | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended                                           |
| Titanium oxide (TiO <sub>2</sub> ) - Respirable fraction.                       | TWA    | 1 mg/m <sup>3</sup>                            | US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended            |
| Titanium oxide (TiO <sub>2</sub> ) - Total dust.                                | TWA    | 10 mg/m <sup>3</sup>                           | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended                                         |
|                                                                                 | TWA    | 10 mg/m <sup>3</sup>                           | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended                    |
| Titanium oxide (TiO <sub>2</sub> )                                              | ST ESL | 50 µg/m <sup>3</sup>                           | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended |
|                                                                                 | AN ESL | 5 µg/m <sup>3</sup>                            | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended |
|                                                                                 | TWA    | 10 mg/m <sup>3</sup>                           | US. ACGIH Threshold Limit Values, as amended                                                |
| Titanium oxide (TiO <sub>2</sub> ) - Total dust.                                | PEL    | 15 mg/m <sup>3</sup>                           | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended               |
| Titanium oxide (TiO <sub>2</sub> )                                              | IDLH   | 5,000 mg/m <sup>3</sup>                        | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended                |

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

#### Biological Limit Values

No biological exposure limits noted for the ingredient(s).

#### Appropriate Engineering Controls

Observe good industrial hygiene practices. Low hazard for recommended handling by trained personnel.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection:

Avoid contact with eyes and prolonged skin contact. Protective gloves and goggles must be used if there is a risk of direct contact or splash.

#### Skin Protection



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|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| <b>Hand Protection:</b>          | Material: Use suitable protective gloves if risk of skin contact. |
| <b>Skin and Body Protection:</b> | No data available.                                                |
| <b>Respiratory Protection:</b>   | Not relevant, due to the form of the product.                     |
| <b>Hygiene measures:</b>         | Observe good industrial hygiene practices.                        |

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

|                        |                    |
|------------------------|--------------------|
| <b>Physical state:</b> | Solid              |
| <b>Form:</b>           | Gel                |
| <b>Color:</b>          | Tan                |
| <b>Odor:</b>           | Odorless           |
| <b>Odor Threshold:</b> | No data available. |
| <b>Melting Point:</b>  | No data available. |
| <b>Boiling Point:</b>  | No data available. |
| <b>Flammability:</b>   | No data available. |

#### Upper/lower limit on flammability or explosive limits

|                                   |                    |
|-----------------------------------|--------------------|
| <b>Explosive limit - upper:</b>   | No data available. |
| <b>Explosive limit - lower:</b>   | No data available. |
| <b>Flash Point:</b>               | No data available. |
| <b>Self Ignition Temperature:</b> | No data available. |
| <b>Decomposition Temperature:</b> | No data available. |
| <b>pH:</b>                        | No data available. |

#### Viscosity

|                             |                    |
|-----------------------------|--------------------|
| <b>Dynamic viscosity:</b>   | Not determined.    |
| <b>Kinematic viscosity:</b> | No data available. |
| <b>Flow Time:</b>           | No data available. |

#### Solubility(ies)

|                                                 |                    |
|-------------------------------------------------|--------------------|
| <b>Solubility in Water:</b>                     | No data available. |
| <b>Solubility (other):</b>                      | No data available. |
| <b>Partition coefficient (n-octanol/water):</b> | No data available. |
| <b>Vapor pressure:</b>                          | No data available. |
| <b>Relative density:</b>                        | No data available. |
| <b>Density:</b>                                 | No data available. |
| <b>Bulk density:</b>                            | No data available. |



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|                               |                    |
|-------------------------------|--------------------|
| <b>Vapor density (air=1):</b> | No data available. |
|-------------------------------|--------------------|

**Particle characteristics**

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Particle Size:</b>                 | No data available. |
| <b>Particle Size Distribution:</b>    | No data available. |
| <b>Specific surface area:</b>         | No data available. |
| <b>Surface charge/Zeta potential:</b> | No data available. |
| <b>Shape:</b>                         | No data available. |
| <b>Crystallinity:</b>                 | No data available. |
| <b>Surface treatment:</b>             | No data available. |

|                                     |
|-------------------------------------|
| <b>10. Stability and reactivity</b> |
|-------------------------------------|

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| <b>Reactivity:</b>                         | Material is stable under normal conditions. |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions. |
| <b>Possibility of hazardous reactions:</b> | Material is stable under normal conditions. |
| <b>Conditions to avoid:</b>                | None under normal conditions.               |
| <b>Incompatible Materials:</b>             | None under normal conditions.               |
| <b>Hazardous Decomposition Products:</b>   | Material is stable under normal conditions. |

|                                      |
|--------------------------------------|
| <b>11. Toxicological information</b> |
|--------------------------------------|

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| <b>General information:</b> | Under normal conditions of intended use, this material does not pose a risk to health. |
|-----------------------------|----------------------------------------------------------------------------------------|

**Information on toxicological effects**

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| <b>Skin Contact:</b> | Due to the small packaging the risk of skin contact is minimal.                                    |
| <b>Eye contact:</b>  | Due to the small packaging the risk of eye contact is minimal.                                     |
| <b>Ingestion:</b>    | Due to the small packaging the risk of ingestion is minimal.                                       |



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## Symptoms related to the physical, chemical and toxicological characteristics

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| <b>Inhalation:</b>   | No specific symptoms noted.                            |
| <b>Skin Contact:</b> | Skin irritation is not anticipated when used normally. |
| <b>Eye contact:</b>  | No specific symptoms noted.                            |
| <b>Ingestion:</b>    | No specific symptoms noted.                            |

## Information on likely routes of exposure

### Acute toxicity (list all possible routes of exposure)

#### Oral

|                                                          |                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                                          | Not classified for acute toxicity based on available data.                                                                                                                                                                                                                                                                                |
| <b>Components:</b>                                       |                                                                                                                                                                                                                                                                                                                                           |
| Silane, dichlorodimethyl-, reaction products with silica | No data available.                                                                                                                                                                                                                                                                                                                        |
| Titanium oxide (TiO <sub>2</sub> )                       | LD 50 (Rat): > 25,000 mg/kg<br>Experimental result, Supporting study LD 50 (Rat): > 11,000 mg/kg<br>Experimental result, Supporting study LD 50 (Mouse): > 5,000 mg/kg<br>Experimental result, Key study LD 50 (Rat): > 5,000 mg/kg<br>Experimental result, Key study LD 50 (Rat): > 5,000 mg/kg<br>Experimental result, Supporting study |

#### Dermal

|                                                          |                                                            |
|----------------------------------------------------------|------------------------------------------------------------|
| <b>Product:</b>                                          | Not classified for acute toxicity based on available data. |
| <b>Components:</b>                                       |                                                            |
| Silane, dichlorodimethyl-, reaction products with silica | No data available.                                         |
| Titanium oxide (TiO <sub>2</sub> )                       | No data available.                                         |

#### Inhalation

|                                                          |                                                                                                                                                                                                                                            |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                                          | Not classified for acute toxicity based on available data.                                                                                                                                                                                 |
| <b>Components:</b>                                       |                                                                                                                                                                                                                                            |
| Silane, dichlorodimethyl-, reaction products with silica | No data available.                                                                                                                                                                                                                         |
| Titanium oxide (TiO <sub>2</sub> )                       | LC 50 (Rat, 4 h): 5.09 mg/l Inhalation; 2 = reliable with restrictions;<br>Experimental result, Key study, Inhalation LC 50 (Rat, 4 h): > 6.82 mg/l Inhalation; 2 = reliable with restrictions; Experimental result, Key study, Inhalation |

#### Repeated dose toxicity

|                            |                    |
|----------------------------|--------------------|
| <b>Product:</b>            | No data available. |
| <b>Components:</b>         |                    |
| Silane, dichlorodimethyl-, | No data available. |



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reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>)      NOAEL (Rat(Female, Male), Inhalation): 5 mg/m<sup>3</sup> Experimental result, Supporting study Inhalation  
NOAEL (Rat(Male), Oral, 29 d): 24,000 mg/kg Experimental result, Key study Oral  
NOAEL (Rat(female), Inhalation): 0.52 mg/m<sup>3</sup> Experimental result, Supporting study Inhalation  
NOAEL (Rat(Male), Inhalation): 5 mg/m<sup>3</sup> Experimental result, Supporting study Inhalation  
NOAEL (Mouse(female), Inhalation): 9.5 mg/m<sup>3</sup> Experimental result, Supporting study Inhalation

#### **Skin Corrosion/Irritation**

**Product:**      No data available.

**Components:**

Silane, dichlorodimethyl-,      No data available.  
reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>)      No data available.

#### **Serious Eye Damage/Eye Irritation**

**Product:**      No data available.

**Components:**

Silane, dichlorodimethyl-,      No data available.  
reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>)      Not irritating in vivo Rabbit, 24 hrs: EU  
Not irritating in vivo Rabbit, 48 - 72 hrs: EU  
Minimal irritant in vivo Rabbit, 24 hrs: EU  
Not irritating in vivo Rabbit, 1 hrs: EU  
Minimal irritant in vivo Rabbit, 48 - 72 hrs: EU  
Not irritating in vivo Rabbit, 24 hrs: EU  
Not irritating in vivo Rabbit, 48 - 72 hrs: EU  
Minimal irritant in vivo Rabbit, 24 - 72 hrs: EU  
Not irritating in vivo Rabbit, 24 - 72 hrs: EU  
Minimal irritant in vivo Rabbit, 1 hrs: EU  
Not irritating in vivo Rabbit, 1 hrs: EU

#### **Respiratory or Skin Sensitization**

**Product:**      No data available.

**Components:**

Silane, dichlorodimethyl-,      No data available.  
reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>)      Skin sensitization:, in vivo/in vitro (Guinea pig): Non sensitising

#### **Carcinogenicity**

**Product:**      No data available.

**Components:**



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Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) No data available.

**In vivo**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) No data available.

**Specific Target Organ Toxicity - Repeated Exposure**



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**Product:** No data available.  
**Components:**  
Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) No data available.

#### **Aspiration Hazard**

**Product:** No data available.  
**Components:**  
Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) No data available.

#### **Information on health hazards**

##### **Other hazards**

**Product:** No data available.

## **12. Ecological information**

### **Ecotoxicity:**

#### **Acute hazards to the aquatic environment:**

##### **Fish**

**Product:** No data available.  
**Components:**  
Silane, dichlorodimethyl-, No data available.  
, reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) EC 50 (96 h): > 9,051 mg/l Experimental result, Not specified  
NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result,  
Weight of Evidence study  
LC 50 (Pimephales promelas, 96 h): > 1,000 mg/l Experimental result,  
Weight of Evidence study  
LC 50 (Cyprinodon variegatus, 96 h): > 240 - < 370 mg/l Experimental  
result, Not specified  
NOAEL (Pimephales promelas, 96 h): >= 1,000 mg/l Experimental result,  
Weight of Evidence study

##### **Aquatic Invertebrates**

**Product:** No data available.  
**Components:**  
Silane, dichlorodimethyl-, No data available.  
, reaction products with  
silica  
Titanium oxide (TiO<sub>2</sub>) EC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Not  
specified  
EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication



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EC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Supporting study  
EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Experimental result, Weight of Evidence study  
EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Experimental result, Weight of Evidence study

#### **Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**  
Silane, dichlorodimethyl-, reaction products with silica No data available.  
Titanium oxide (TiO<sub>2</sub>) No data available.

#### **Toxicity to microorganisms**

**Product:** No data available.

**Components:**  
Silane, dichlorodimethyl-, reaction products with silica No data available.  
Titanium oxide (TiO<sub>2</sub>) No data available.

#### **Chronic hazards to the aquatic environment:**

##### **Fish**

**Product:** No data available.

**Components:**  
Silane, dichlorodimethyl-, reaction products with silica No data available.  
Titanium oxide (TiO<sub>2</sub>) ED 0 (Phoxinus phoxinus, 30 d): >= 1,000 mg/l (Static) Experimental result, Supporting study  
LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l (Static) Experimental result, Supporting study

##### **Aquatic Invertebrates**

**Product:** No data available.

**Components:**  
Silane, dichlorodimethyl-, reaction products with silica No data available.  
Titanium oxide (TiO<sub>2</sub>) EC 50 (Nitokra spinipes, 13 d): 107.4 mg/l (Partially static renewed, partially continuous) Experimental result, Supporting study  
LC 100 (Daphnia magna, 18 d): 1,000 mg/l (Static) Experimental result, Supporting study  
EC 50 (Nitokra spinipes, 13 d): 2.03 mg/l (Partially static renewed, partially continuous) Experimental result, Supporting study  
EC 100 (Daphnia magna, 30 d): 500 mg/l (Static) Experimental result, Supporting study



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#### **Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>) No data available.

#### **Toxicity to microorganisms**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>) No data available.

#### **Persistence and Degradability**

##### **Biodegradation**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>) No data available.

##### **BOD/COD Ratio**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica

Titanium oxide (TiO<sub>2</sub>) No data available.

#### **Bioaccumulative potential**

##### **Bioconcentration Factor (BCF)**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, No data available.  
reaction products with  
silica



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Titanium oxide (TiO<sub>2</sub>)      Oncorhynchus mykiss, Bioconcentration Factor (BCF): 19 Experimental result, Key study Aquatic sediment  
Oncorhynchus mykiss, Bioconcentration Factor (BCF): 67 Experimental result, Key study Aquatic sediment  
Oncorhynchus mykiss, Bioconcentration Factor (BCF): 20 Experimental result, Key study Aquatic sediment  
Cyprinus carpio, Bioconcentration Factor (BCF): 74 Experimental result, Supporting study Aquatic sediment  
Oncorhynchus mykiss, Bioconcentration Factor (BCF): 34 - 352 Experimental result, Key study Aquatic sediment

**Partition Coefficient n-octanol / water (log K<sub>ow</sub>)**

**Product:** No data available.

**Components:**

Silane, dichlorodimethyl-, reaction products with silica      No data available.

Titanium oxide (TiO<sub>2</sub>)      No data available.

**Mobility in soil:**

**Product** No data available.

**Components:**

Silane, dichlorodimethyl-, reaction products with silica      No data available.

Titanium oxide (TiO<sub>2</sub>)      No data available.

**Results of PBT and vPvB assessment:**

**Product** No data available.

**Components:**

Silane, dichlorodimethyl-, reaction products with silica      No data available.

Titanium oxide (TiO<sub>2</sub>)      No data available.

**Other adverse effects:**

**Other hazards**

**Product:** No data available.

**13. Disposal considerations**

**Disposal methods:** Dispose of waste and residues in accordance with local authority requirements.

**Contaminated Packaging:** No data available.



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#### 14. Transport information

|                                    |                |
|------------------------------------|----------------|
| <b>DOT</b> UN number or ID number: | Not regulated. |
| UN Proper Shipping Name:           | Not regulated. |
| Transport Hazard Class(es)         |                |
| Class:                             | Not regulated. |
| Label(s):                          | Not regulated. |
| Packing Group:                     | Not regulated. |
| Marine Pollutant:                  | Not regulated. |
| Limited quantity                   | Not regulated. |
| Excepted quantity                  | Not regulated. |
| Special precautions for user:      | Not regulated. |

#### IMDG

|                               |                |
|-------------------------------|----------------|
| UN number or ID number:       | Not regulated. |
| UN Proper Shipping Name:      | Not regulated. |
| Transport Hazard Class(es)    |                |
| Class:                        | Not regulated. |
| Subsidiary risk:              | Not regulated. |
| EmS No.:                      | Not regulated. |
| Packing Group:                | Not regulated. |
| Environmental Hazards         |                |
| Marine Pollutant:             | Not regulated. |
| Special precautions for user: | Not regulated. |

#### IATA

|                               |                |
|-------------------------------|----------------|
| UN number or ID number:       | Not regulated. |
| Proper Shipping Name:         | Not regulated. |
| Transport Hazard Class(es):   |                |
| Class:                        | Not regulated. |
| Subsidiary risk:              | Not regulated. |
| Packing Group:                | Not regulated. |
| Environmental Hazards         |                |
| Marine pollutant:             | Not regulated. |
| Special precautions for user: | Not regulated. |

#### 15. Regulatory information

##### US Federal Regulations

##### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.



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**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Not classified

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, Titanium oxide (TiO<sub>2</sub>) which is [are] known to the State of California to cause cancer.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**US. New Jersey Worker and Community Right-to-Know Act**

**Chemical Identity**

Silane, dichlorodimethyl-, reaction products with silica  
Titanium oxide (TiO<sub>2</sub>)

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Silane, dichlorodimethyl-, reaction products with silica



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## **US. Pennsylvania RTK - Hazardous Substances**

### **Chemical Identity**

Silane, dichlorodimethyl-, reaction products with silica

## **US. Rhode Island RTK**

### **Chemical Identity**

Silane, dichlorodimethyl-, reaction products with silica

## **International regulations**

### **Montreal protocol**

Not applicable

### **Stockholm convention**

Not applicable

### **Rotterdam convention**

Not applicable

### **Kyoto protocol**

Not applicable

|                                                                              |
|------------------------------------------------------------------------------|
| <b>16. Other information, including date of preparation or last revision</b> |
|------------------------------------------------------------------------------|

**Issue Date:** 01/03/2022

**Version #:** 11.3

**Further Information:** No data available.

**Disclaimer:**

**Disclaimer:**

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