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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)
367961	TUBE PST PLH 13X100 3.5 PLBL L/GN	BD Vacutainer® PST™ Blood Collection Tubes

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.
Hazard Statement: Not applicable
Precautionary Statements Not applicable



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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 (%) [*]
Silane, dichlorodimethyl-, reaction products with silica	No data available.	68611-44-9	4.2%
Titanium oxide (TiO ₂)	No data available.	13463-67-7	0.017%

^{*} 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

General information: Get medical attention if symptoms occur.

Inhalation: Move into fresh air and keep at rest. Treat symptomatically. Get medical attention if symptoms occur.

Skin Contact: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Ingestion: Rinse mouth thoroughly. Never give liquid to an unconscious person. Get medical attention if symptoms occur.

Personal Protection for First-aid Responders: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Most important symptoms/effects, acute and delayed

Symptoms: 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, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: 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.

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.



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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.

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 ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	14 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Silane, dichlorodimethyl-, reaction products with silica - Respirable particles.	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values, as amended
	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Silane, dichlorodimethyl-, reaction products with silica	REL	6 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	IDLH	3,000 mg/m ³	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Silane, dichlorodimethyl-, reaction products with silica - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended



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Total dust.			
	TWA	15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Silane, dichlorodimethyl-, reaction products with silica - Respirable fraction.	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	TWA PEL	5 mg/m3	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/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Silane, dichlorodimethyl-, reaction products with silica	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	20 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	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Silane, dichlorodimethyl-, reaction products with silica - Respirable fraction.	TWA	5 mg/m3	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 ₂) - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended
Titanium oxide (TiO ₂) - Total dust.	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Titanium oxide (TiO ₂)	ST ESL	50 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended
Titanium oxide (TiO ₂) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Titanium oxide (TiO ₂)	IDLH	5,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended



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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

Hand Protection: Material: Use suitable protective gloves if risk of skin contact.

Skin and Body Protection: No data available.

Respiratory Protection: Not relevant, due to the form of the product.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Solid
Form: Gel
Color: Tan
Odor: Odorless
Odor Threshold: No data available.
Melting Point: Not applicable
Boiling Point: No data available.
Flammability: Not applicable

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: Not applicable
Explosive limit - lower: Not applicable
Flash Point: Not applicable
Self Ignition Temperature: Not determined.
Decomposition Not applicable



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Temperature:	
pH:	Not applicable
Viscosity	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	No data available.
Flow Time:	Not applicable
Solubility(ies)	
Solubility in Water:	Not applicable
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	Not applicable
Density:	Not applicable
Bulk density:	Not applicable
Vapor density (air=1):	Not applicable
Particle characteristics	
Particle Size:	Not applicable
Particle Size Distribution:	Not applicable
Specific surface area:	Not applicable
Surface charge/Zeta potential:	Not applicable
Assessment:	Not applicable
Shape:	Not applicable
Crystallinity:	Not applicable
Surface treatment:	Not applicable

10. Stability and reactivity

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



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11. Toxicological information

General information: Under normal conditions of intended use, this material does not pose a risk to health.

Information on likely routes of exposure

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact: Due to the small packaging the risk of skin contact is minimal.

Eye contact: Due to the small packaging the risk of eye contact is minimal.

Ingestion: Due to the small packaging the risk of ingestion is minimal.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific symptoms noted.

Skin Contact: Skin irritation is not anticipated when used normally.

Eye contact: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Components:
Silane,
dichlorodimethyl-,
reaction products with
silica

Titanium dioxide
LD 50 (Rat): > 25,000 mg/kg
Experimental result, Supporting study LD 50 (Rat): > 11,000 mg/kg
Experimental result, Supporting study LD 50 (Mouse): > 5,000 mg/kg
Experimental result, Key study LD 50 (Rat): > 5,000 mg/kg
Experimental result, Key study LD 50 (Rat): > 5,000 mg/kg
Experimental result, Supporting study

Dermal

Product: Not classified for acute toxicity based on available data.



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Components:

Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:
Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

LC 50 (Rat): 5.09 mg/l
Experimental result, Key study, Inhalation
LC 50 (Rat): > 6.82 mg/l
Experimental result, Key study, Inhalation

Repeated dose toxicity

Product: No data available.

Components:
Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

NOAEL (Rat(Female, Male), Inhalation): 5 mg/m3 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/m3 Experimental result,
Supporting study Inhalation
NOAEL (Rat(Male), Inhalation): 5 mg/m3 Experimental result, Supporting
study Inhalation
NOAEL (Mouse(female), Inhalation): 9.5 mg/m3 Experimental result,
Supporting study Inhalation

Skin Corrosion/Irritation

Product: No data available.

Components:



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Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:
Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

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-,
reaction products with
silica

No data available.

Titanium dioxide

Skin sensitization:, in vivo/in vitro (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

Components:



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Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

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-,
reaction products
with silica

Titanium dioxide

No data available.

In vivo

Product: No data available.

Components:
Silane,
dichlorodimethyl-,
reaction products
with silica

Titanium dioxide

No data available.

Reproductive toxicity

Product: No data available.

Components:



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

Titanium dioxide No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

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

Titanium dioxide No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

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

Titanium dioxide No data available.

Aspiration Hazard

Product: No data available.

Components:

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

Titanium dioxide No data available.

Information on health hazards

Other hazards

Product: No data available.



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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

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

Titanium oxide (TiO₂) 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-, reaction products with silica No data available.

Titanium oxide (TiO₂) 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
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 (TiO₂) No data available.

Toxicity to microorganisms

Product: No data available.

Components:



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Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	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 (TiO₂) ED 0 (Phoxinus phoxinus, 30 d): >= 1,000 mg/l Experimental result, Supporting study
LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l Experimental result, Supporting study

Aquatic Invertebrates

Product: No data available.

Components:

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

Titanium oxide (TiO₂) EC 50 (Nitokra spinipes, 13 d): 107.4 mg/l Experimental result, Supporting study
LC 100 (Daphnia magna, 18 d): 1,000 mg/l Experimental result, Supporting study
EC 50 (Nitokra spinipes, 13 d): 2.03 mg/l Experimental result, Supporting study
EC 100 (Daphnia magna, 30 d): 500 mg/l Experimental result, Supporting study

Toxicity to Aquatic Plants

Product: No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica No data available.
Titanium oxide (TiO₂) No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica No data available.
Titanium oxide (TiO₂) No data available.



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Persistence and Degradability

Biodegradation

Product: No data available.

Components:

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

Titanium oxide (TiO₂) No data available.

BOD/COD Ratio

Product: No data available.

Components:

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

Titanium oxide (TiO₂) No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

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

Titanium oxide (TiO₂) 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_{ow})

Product: No data available.

Components:

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

Titanium oxide (TiO₂) No data available.

Mobility in soil:

Product No data available.

Components:



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Silane, dichlorodimethyl-, reaction products with silica No data available.
Titanium oxide (TiO₂) 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 (TiO₂) No data available.

Other adverse effects:

Other hazards
Product: No data available.
Components:
Silane, dichlorodimethyl-, reaction products with silica No data available.
Titanium oxide (TiO₂) No data available.

13. Disposal considerations

Disposal methods: Dispose of waste and residues in accordance with local authority requirements.
Contaminated Packaging: No data available.

14. Transport information

DOTUN 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.



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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.

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.



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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 (TiO₂) which is [are] known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

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

Chemical Identity

Silane, dichlorodimethyl-, reaction products with silica
Oxirane, 2-methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)
Titanium oxide (TiO₂)
Heparin, lithium salt

US. Massachusetts RTK - Substance List

Chemical Identity

Silane, dichlorodimethyl-, reaction products with silica

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Silane, dichlorodimethyl-, reaction products with silica



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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

16. Other information, including date of preparation or last revision
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Issue Date: 11/17/2021

Version #: 11.1

Further Information: No data available.

Disclaimer: Disclaimer:
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