

Becton, Dickinson
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BD, Franklin Lakes, NJ
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SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
365986	TUBE MICRO W/MICROGARD PST MTGN	BD Microtainer® PST™ LH Tubes
365988	TUBE MICRO W/MICROGARD PST MTGN/AMB CE	BD Microtainer® PST™ LH Amber Tubes

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.

Uses advised against: For External Use Only

1.3 Details of the supplier of the safety data sheet

Manufacturer

BD, Integrated Diagnostic Solutions
1 Becton Drive
07417 Franklin Lakes, NJ
USA

Telephone: 1 800 631 0174
Fax: 1 201 847 4866

Contact Person: Technical Services

E-mail: productcomplaints@bd.com

Supplier

BD, Integrated Diagnostic Solutions
1030 Eskdale Road, Winnersh Triangle
RG41 5TS Wokingham, Berkshire
United Kingdom

Telephone: 01189216499

1.4 Emergency telephone number: CHEMTREC +001-703-527-3887 (International)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

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Not classified

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2.2 Label Elements Not applicable

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Silane, dichlorodimethyl-, reaction products with silica	1 - <5%	68611-44-9		No data available.	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Silane, dichlorodimethyl-, reaction products with silica	Classification: None known. Supplemental label information: None known.	None.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of 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.



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

Personal Protection for First-aid Responders: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

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

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

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

5.3 Advice 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.

SECTION 6: Accidental release measures

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

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

6.2 Environmental Precautions: Do not release into the environment.



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6.3 Methods and material for containment and cleaning up: Sweep or scoop up and remove. Prevent runoff from entering drains, sewers, or streams.

6.4 Reference to other sections: No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Technical measures:** No data available.
- Local/Total ventilation:** No data available.
- Safe handling advice:** Wear appropriate personal protective equipment. Low hazard for recommended handling by trained personnel.
- Contact avoidance measures:** No data available.

7.2 Conditions for safe storage, including any incompatibilities

- 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.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
Silane, dichlorodimethyl-, reaction products with silica	TWA	Inhalable dust.		6 mg/m3	EH40 WEL (12 2011)
	TWA	Respirable dust.		2.4 mg/m3	
	TWA	Inhalable dust.		10 mg/m3	EH40 WEL (01 2020)
	TWA	Respirable dust.		4 mg/m3	EH40 WEL (01 2020)

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.

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
Silane, dichlorodimethyl-, reaction products with silica	TWA	Inhalable dust.		6 mg/m3	EH40 WEL (12 2011)
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		dust.			
	TWA	Respirable dust.		4 mg/m ³	EH40 WEL (01 2020)

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).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Titanium oxide (TiO ₂)	Workers	Inhalation	Local, long-term; 10 mg/m ³	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified

8.2 Exposure controls

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.

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.

Environmental Controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:

Solid

Form:

Gel

Color:

Tan

Odor:

Odorless

Odor Threshold:

No data available.

Melting Point:

No data available.

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Boiling Point:	No data available.
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	No data available.
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.
Viscosity	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Vapor density (air=1):	No data available.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information



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

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

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 No data available.

Dermal

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

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

Inhalation

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

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

Repeated dose toxicity

Product: No data available.

Components:
Silane, dichlorodimethyl-,
No data available.

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reaction products with
silica

Skin Corrosion/Irritation

Product: No data available.

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

Serious Eye Damage/Eye Irritation

Product: No data available.

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

Respiratory or Skin Sensitization

Product: No data available.

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

Carcinogenicity

Product: No data available.

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

Germ Cell Mutagenicity

In vitro

Product: No data available.

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

In vivo

Product: No data available.

Components:
Silane, dichlorodimethyl-, No data available.
reaction products with
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Reproductive toxicity

Product: No data available.

Components:
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reaction products with
silica

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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

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

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

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

Aspiration Hazard

Product: No data available.

Components:

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

11.2 Information on other hazards

Other information

Product: No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

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

Aquatic Invertebrates

Product: No data available.

Components:

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

Toxicity to Aquatic Plants

Product: No data available.

Components:

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

Toxicity to microorganisms

Product: No data available.

Components:

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

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

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

Aquatic Invertebrates

Product: No data available.

Components:

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

Toxicity to microorganisms

Product: No data available.

Components:

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

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components:

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

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

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

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Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

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

12.4 Mobility in soil:

Product: No data available.

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

12.5 Results of PBT and vPvB assessment:

Product: No data available.

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

12.6 Other adverse effects:

Other hazards

Product: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

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

Contaminated Packaging: No data available.

SECTION 14: Transport information

ADR

14.1 UN number or ID number: Not Regulated.

14.2 UN Proper Shipping Name: Not Regulated.

14.3 Transport Hazard Class(es)

Class: Not Regulated.

Label(s): Not Regulated.

Hazard No. (ADR): Not Regulated.

Tunnel restriction code: Not Regulated.

14.4 Packing Group: Not Regulated.



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Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
14.5 Environmental Hazards	Not Regulated.
14.6 Special precautions for user:	Not Regulated.

ADN

14.1 UN number or ID number:	Not Regulated.
14.2 UN Proper Shipping Name:	Not Regulated.
14.3 Transport Hazard Class(es)	
Class:	Not Regulated.
Label(s):	Not Regulated.
Hazard No. (ADR):	Not Regulated.
Tunnel restriction code:	Not Regulated.
14.4 Packing Group:	Not Regulated.
Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
14.5 Special precautions for user:	Not Regulated.

RID

14.1 UN number or ID number:	Not Regulated.
14.2 UN Proper Shipping Name:	Not Regulated.
14.3 Transport Hazard Class(es)	
Class:	Not Regulated.
Label(s):	Not Regulated.
14.4 Packing Group:	Not Regulated.
Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
14.5 Environmental Hazards	Not Regulated.
14.6 Special precautions for user:	Not Regulated.

IMDG

14.1 UN number or ID number:	Not Regulated.
14.2 UN Proper Shipping Name:	Not Regulated.
14.3 Transport Hazard Class(es)	
Class:	Not Regulated.
Label(s):	Not Regulated.
EmS No.:	Not Regulated.
14.4 Packing Group:	Not Regulated.
Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
14.5 Environmental Hazards	Not Regulated.
14.6 Special precautions for user:	Not Regulated.

IATA

14.1 UN number or ID number:	Not Regulated.
14.2 UN Proper Shipping Name:	Not Regulated.
14.3 Transport Hazard Class(es)	
Class:	Not Regulated.
Label(s):	Not Regulated.
14.4 Packing Group:	Not Regulated.

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Passenger and cargo aircraft :	Not Regulated.
Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
14.5 Environmental Hazards	Not Regulated.
14.6 Special precautions for user:	Not Regulated.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: None present or none present in regulated quantities.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.
International regulations

Montreal protocol
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Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information**Abbreviations and acronyms:**

EH40 WEL: UK. EH40 Workplace Exposure Limits (WELs), as amended
EH40 WEL / TWA: Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

Wording of the statements in section 2 and 3

: none



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Training information:

No data available.

Disclaimer:

Disclaimer:

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