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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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)
367895	TUBE PLN PLH 16X100 10.0 BLBLCE RD	BD Vacutainer® CAT Plus Blood Collection Tubes
367896	TUBE PLN PLH 16X100 10.0 PLBLCE RD	BD Vacutainer® CAT (Clot Activator Tube) Plus Blood Collection Tubes
360083	TUBE PLN PLH 16X100 10.0 USI RD CE	BD Vacutainer® CAT (Clot Activator Tube) Plus Blood Collection 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
Belliver Industrial Estate
Plymouth, Devon PL6 7BP
United Kingdom

Telephone: 44 0 1752 701281
Fax: 44 1752 788308

Contact Person: Safety and Environmental Officer
E-mail: productcomplaints@bd.com

1.4 Emergency telephone number:

CHEMTREC +001-703-527-3887 (International)

SECTION 2: Hazards identification

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2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Carcinogenicity	Category 1A	H350: May cause cancer.

2.2 Label Elements

Contains: Quartz (SiO2)



Signal Word: Danger

Hazard Statement(s): H350: May cause cancer.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other hazards No data available.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Quartz (SiO2)	50 - <100%	14808-60-7	238-878-4	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).

Classification

Chemical name	CLP Classification	Notes
Quartz (SiO2)	Carc.: 1A: H350	

Regulation No. 1272/2008.
The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Eye contact: Important! Immediately rinse with water for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Rinse mouth thoroughly. Seek medical advice.

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4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Low hazard for recommended handling by trained personnel.

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Water spray, fog, CO_2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: None known.

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: Use fire-extinguishing media appropriate for surrounding materials. Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid contact with spilled material. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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6.2 Environmental Precautions: Do not release into the environment.

6.3 Methods and material for containment and cleaning up: Sweep or scoop up and remove. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

6.4 Reference to other sections: No data available.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Wear appropriate personal protective equipment. Low hazard for recommended handling by trained personnel.

7.2 Conditions for safe storage, including any incompatibilities: Keep containers tightly closed. Keep the container in a safe place. Keep in a cool, well-ventilated place.

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	Exposure Limit Values	Source
Quartz (SiO2) - Respirable.	TWA	0.1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
Quartz (SiO2) - Respirable fraction and dust	TWA	0.1 mg/m3	EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended (12 2017)

Biological Limit Values

None.

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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

General information: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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: Use suitable protective gloves if risk of skin contact.

Other: No data available.

Respiratory Protection: No protection is ordinarily required under normal conditions of use and with adequate ventilation.

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:	Powder
Color:	White
Odor:	Odorless
Odor Threshold:	No data available.
pH:	No data available.
Melting Point:	No data available.

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Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

Molecular weight:	No data available.
VOC Content:	No data available.
Bulk density:	No data available.
Dust Explosion Limit, Upper:	No data available.
Dust Explosion Limit, Lower:	No data available.
Dust Explosion Description Number Kst:	No data available.
Minimum ignition energy:	No data available.
Minimum ignition temperature:	No data available.
Metal Corrosion:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Material is stable under normal conditions.

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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

Information on likely routes of exposure

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Prolonged breathing of high levels of crystalline silica can cause silicosis. Also, airborne crystalline silica is possibly carcinogenic to humans.

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

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.

11.1 Information on toxicological effects

Acute toxicity

Oral

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

Specified substance(s)

Quartz (SiO2) No data available.

Dermal

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

Specified substance(s)
Quartz (SiO2) No data available.

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

Specified substance(s)
Quartz (SiO2) No data available.

Repeated dose toxicity
Product: No data available.

Specified substance(s)
Quartz (SiO2) No data available.

Skin Corrosion/Irritation:
Product: No data available.

Specified substance(s)
Quartz (SiO2) No data available.

Serious Eye Damage/Eye Irritation:
Product: No data available.

Specified substance(s)
Quartz (SiO2) No data available.

Respiratory or Skin Sensitization:
Product: No data available.

Specified substance(s)

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Quartz (SiO2)	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

In vivo

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

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Quartz (SiO2)	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

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Quartz (SiO2)	No data available.

Toxicity to Aquatic Plants

Product:	No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

BOD/COD Ratio

Product	No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

12.3 Bioaccumulative potential

Product:	No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

12.4 Mobility in soil:

Product:	No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

12.5 Results of PBT and vPvB assessment:

Product:	No data available.

Specified substance(s)

Quartz (SiO2)	No data available.

12.6 Other adverse effects:	No data available.

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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.

SECTION 14: Transport information

ADR

14.1 UN 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.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

ADN

14.1 UN 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.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.

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14.6 Special precautions for user:	Not regulated.

RID

14.1 UN 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.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IMDG

14.1 UN 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.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IATA

14.1 UN Number:	Not regulated.
14.2 Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es):	

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Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Benzene, methyl-	108-88-3	- <0.1%

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Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-	556-67-2	- <0.1%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:

Chemical name	CAS-No.	Concentration
Quartz (SiO2)	14808-60-7	70 - 80%

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Quartz (SiO2)	14808-60-7	70 - 80%
Toluene	108-88-3	0 - <0.1%
octamethylcyclotetrasiloxane	556-67-2	0 - <0.1%

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	0 - <0.1%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	0 - <0.1%
octamethylcyclotetrasiloxane	556-67-2	0 - <0.1%

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

SECTION 16: Other information

Revision Information: Not relevant.

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PBT	PBT: persistent, bioaccumulative and toxic substance.
vPvB	vPvB: very persistent and very bioaccumulative substance.

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

Wording of the H-statements in section 2 and 3

H350 May cause cancer.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Carc. 1A, H350

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