

SAFETY DATA SHEET

1. Identification

Product identifier BD Vacutainer® SST Tubes

Other means of identification

Product code 367782, 365967, 365968, 365978, 365979, 365906, 367966, 367968, 367974, 367976, 367977,

367979, 367981, 367983, 367985, 367986, 367987, 367988, 367989, 367991, 367997, 368013,

368015, 368016, 368159, 368825, 365979

Recommended use Blood collection (In-Vitro Diagnostic) device

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name BD Diagnostics, PreAnalytical Systems

Address 1 Becton Drive

Franklin Lakes, NJ 07417-1885

Telephone800-631-0174Contact personTechnical Services

Emergency telephone Chemtrec US 1-800-424-9300 EU 703-527-3887

E-mail pas_tech_services@bd.com

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement This material is not considered hazardous by the OSHA Hazard Communication Standard, OSHA

29 CFR 1910.1200.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Hydrophobic amorphous fumed silica	68611-44-9	1-5
Quartz	14808-60-7	0.1-<1.0

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable

limits.

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4. First-aid measures

Inhalation Due to the small packaging the risk of inhalation is minimal. In case of risk of inhalation of

vapor/aerosols: Move person to fresh air.

Skin contact Wash skin with soap and water. Get medical attention if irritation persists after washing.

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open Eye contact

eyelids wide apart. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if any discomfort occurs. Ingestion

Most important

symptoms/effects, acute and

delaved

May irritate eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special

treatment needed

General information

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

None known.

Specific hazards arising from

the chemical

By heating and fire, harmful vapors/gases may be formed.

Special protective equipment and precautions for firefighters

Fire fighting

the workplace. Use standard firefighting procedures and consider the hazards of other involved materials.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in

equipment/instructions

General fire hazards Material may burn when exposed to sufficient heat.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapors. Avoid contact with eyes and prolonged skin contact. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up **Environmental precautions**

Wipe up spilled material and place in a suitable container for disposal. Following product recovery.

flush area with water. For waste disposal, see Section 13 of the SDS. Environmental manager must be informed of all major spillages.

7. Handling and storage

Precautions for safe handling

Avoid inhalation of vapors. Avoid contact with eyes and prolonged skin contact. Observe good laboratory hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a cool, dry, well-ventilated place. Keep container closed. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

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US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
Hydrophobic amorphous fumed silica (CAS 68611-44-9)	TWA	6 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
alagiaal limit valuaa	No higherical exposure limits noted for the ingredie	nt(a)	

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

Exposure guidelines No exposure limits noted for ingredient(s). Appropriate engineering General ventilation normally adequate. controls

Individual protection measures, such as personal protective equipment

Eye/face protection Risk of contact: Wear approved safety goggles.

Skin protection

For prolonged or repeated skin contact use suitable protective gloves. Nitrile gloves are Hand protection

recommended. Suitable gloves can be recommended by the glove supplier.

Skin protection

Other No skin protection is ordinarily required under normal conditions of use. In accordance with good

industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protection Under normal conditions, respirator is not normally required. If airborne concentrations are above

the applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards

General hygiene Always observe good personal hygiene measures, such as washing after handling the material considerations and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid. Color Yellow. Odorless. Odor **Odor threshold** Not applicable. Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available. range Not applicable.

Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not applicable.

(%)

Not applicable.

Flammability limit - upper

(%)

Not available.

Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature Not applicable. Not available. **Decomposition temperature** Not available. **Viscosity**

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Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

ReactivityThe product is stable and non reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoidContact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

None expected under normal conditions of use.

11. Toxicological information

Information on likely routes of exposure

Inhalation Due to the small packaging the risk of inhalation is minimal. However: Vapors may irritate throat

and respiratory system and cause coughing.

Skin contact May cause skin irritation.

Eye contact May cause eye irritation.

Ingestion Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

May irritate eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

Hydrophobic amorphous fumed silica (CAS 68611-44-9)

Acute Inhalation

LC50 Rat

Rat 0.45 mg/l, 4 hours

Skin corrosion/irritation
Serious eye damage/eye

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

Respiratory sensitization
Skin sensitization
Due to lack of data the classification is not possible.

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Due to lack of data the classification is not possible.

Carcinogenicity Inhalation of quartz dust may cause cancer, however due to the physical form of the product,

inhalation of dust is not likely.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrophobic amorphous fumed silica (CAS 68611-44-9) Quartz (CAS 14808-60-7)

3 Not classifiable as to carcinogenicity to humans.

1 Carcinogenic to humans.

NTP Report on Carcinogens

Quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicityDue to lack of data the classification is not possible. **Specific target organ toxicity -**Due to lack of data the classification is not possible.

single exposure

Specific target organ toxicity - repeated exposure

Due to lack of data the classification is not possible.

Aspiration hazard Due to lack of data the classification is not possible.

Chronic effects None known.

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12. Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Persistence and degradability

Bioaccumulative potential

No data available.

Mobility in soilNo data available.Mobility in generalNo data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations. Do not discharge into drains, water courses

or onto the ground.

Hazardous waste code Not regulated.

Waste from residues / unused

products

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

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Toluene (CAS 108-88-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Toluene (CAS 108-88-3)

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

Not regulated.

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Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3) 594

US state regulations WARNING: This product contains chemicals known to the State of California to cause cancer and

birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Hydrophobic amorphous fumed silica (CAS 68611-44-9)

Quartz (CAS 14808-60-7) Toluene (CAS 108-88-3)

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

Quartz (CAS 14808-60-7) Toluene (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrophobic amorphous fumed silica (CAS 68611-44-9)

Quartz (CAS 14808-60-7) Toluene (CAS 108-88-3)

US. Rhode Island RTK

Toluene (CAS 108-88-3)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Quartz (CAS 14808-60-7) Toluene (CAS 108-88-3)

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

01-October-2015 Issue date 09-March-2016 **Revision date**

Version # 02

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings



List of abbreviations LC50: Lethal Concentration, 50%.

ACGIH: American Conference of Governmental and Industrial Hygienists. References

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither BD nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

This SDS contains revisions in the following section(s):

1, 16.

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