

SAFETY DATA SHEET

1. Identification

Product identifier BD Vacutainer® C&S Urine Tubes

Other means of identification

Product code 364953, 364954, 364955, 364958, 364959, 364944, 364951, 364969

Recommended use For urine collection and analysis.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name BD Diagnostics, PreAnalytical Systems

Address 1 Becton Drive

Franklin Lakes, NJ 07417-1885

Telephone 800-631-0174
Contact person Technical 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 Serious eye damage/eye irritation Category 2A

Reproductive toxicity (fertility, the unborn Category 1B

child)

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye irritation. May damage fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash

thoroughly after handling.

Response If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number		
Borax decahydrate	1303-96-4	20-40	
Boric acid	11113-50-1	1 10-30	

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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.

4. First-aid measures

Inhalation

No specific precautions due to the small quantities handled. However: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if

you feel unwell.

Skin contact

Eye contact

No specific precautions due to the small quantities handled. However: Wash skin thoroughly with

soap and water. Get medical attention if irritation develops and persists.

No specific precautions due to the small quantities handled. However, rinse with water. Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if

irritation develops and persists.

Ingestion

No specific precautions due to the small quantities handled. However: Rinse mouth thoroughly if

dust is ingested. Get medical attention if any discomfort occurs.

Most important

symptoms/effects, acute and delayed

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

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

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

None

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Use fire-extinguishing media appropriate for surrounding materials.

During fire, gases hazardous to health may be formed.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

Containers close to fire should be removed or cooled with water.

General fire hazards The product itself does not burn.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Provide adequate ventilation. Avoid dust formation. Avoid inhalation of dust and contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment.

As supplied, the product is expected to pose no immediate health or fire hazard.

Collect dust using a vacuum cleaner equipped with HEPA filter. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground unless authorized by permit.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pregnant women should not work with the product, if there is the least risk of exposure. Provide adequate ventilation. Avoid generation and spreading of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Keep the workplace clean. Observe good industrial hygiene practices.

As supplied, the product is expected to pose no immediate health or fire hazard.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a cool, dry place.

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8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Borax decahydrate (CAS 1303-96-4)	STEL	6 mg/m3	Inhalable fraction.
·	TWA	2 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Borax decahydrate (CAS	TWA	5 mg/m3	

Biological limit values

1303-96-4)

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

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear dust goggles.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. 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 If engineering measures are not sufficient to maintain concentrations of dust particulates below the

OEL, suitable respiratory protection must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards None.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get this material on clothing. Wash hands after handling and before eating. Keep away from food and drink. Wash hands after handling. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Solid. **Physical state Form** Powder. Color Not available. Odor Not available. **Odor threshold** Not applicable. Not applicable. Melting point/freezing point Not applicable. Initial boiling point and boiling Not applicable. range

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas)

Non combustible.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Flan (%) Not applicable.

Vapor pressure Not applicable.

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Vapor densityNot applicable.Relative densityNot applicable.

Solubility(ies)

Solubility (water) Not applicable.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperatureNot applicable.ViscosityNot applicable.

Other information

DensityNot applicable.Explosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

Hazardous decomposition

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

High temperatures. Avoid dust formation. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

moonipatible materials — Strong oxidizing agont

products

None under normal temperatures and pressures.

11. Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system.

Skin contact Dust may irritate skin.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

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

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritationDue to lack of data the classification is not possible.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

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

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

Carcinogenicity
Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity May damage fertility or the unborn child.

Boric acid: High doses have demonstrated effects on fertility, testes, and developmental effects on

the fetus in laboratory animals. Relevance of these findings to humans is uncertain.

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

single exposure

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Specific target organ toxicity -

repeated exposure

Due to lack of data the classification is not possible.

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.

Chronic effects Prolonged skin contact may cause dermatitis.

As supplied, the product is expected to pose no immediate health or fire hazard. **Further information**

12. Ecological information

Ecotoxicity The product is 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.

The product contains inorganic compounds which are not biodegradable. Persistence and degradability

Bioaccumulative potential Not relevant for inorganic substances.

Mobility in soil No data available.

Other adverse effects The product is not volatile but may be spread by dust-raising handling.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions**

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Not applicable.

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 Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

Standard, 29 CFR 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)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

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SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Borax decahydrate (CAS 1303-96-4)

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

Borax decahydrate (CAS 1303-96-4)

Boric acid (CAS 11113-50-1)

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

Borax decahydrate (CAS 1303-96-4)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories

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

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

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Revision date Version # 01

HMIS® ratings Health: 2*

> Flammability: 0 Physical hazard: 0

NFPA ratings



HSDB® - Hazardous Substances Data Bank References

> ACGIH: American Conference of Governmental and Industrial Hygienists. US. IARC Monographs on Occupational Exposures to Chemical Agents

National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

IARC Monographs. Overall Evaluation of Carcinogenicity

BD Diagnostics Preanalytical Systems cannot anticipate all conditions under which this information **Disclaimer**

> and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

Yes

6/6

available.

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