



**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Page 1 of 5

Printing Date: 2011-Oct-26

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**Product Name:** BD Vacutainer® Urinalysis Preservative PLUS Urine Tubes

### 1 Identification of substance:

• **Product Details:**

MSDS Number: VS60359-01

Issue Date: October 19, 2011

Supersedes: New Issue

ECO No.: ECO157386

• **Product Name:** BD Vacutainer® Urinalysis Preservative PLUS Urine Tubes

• **Catalog Numbers:** 364943, 364946, 365017

• **Manufacturer/Supplier:**

BD Diagnostics, Preanalytical Systems

1 Becton Drive

Franklin Lakes, NJ, 07417-1885

• **Information Department:**

BD Diagnostics, Preanalytical Systems Technical Service, (800) 631-0174

• **Emergency Information:**

In case of a chemical emergency, spill, fire, exposure, or accident contact ChemTrec at (800) 424-9300

### 2 Composition/Data on components:

• **Description:**

**Chemical name:**

Sodium Propionate

P-Hydroxybenzoic Acid Ethyl Ester

Chlorohexidine Diacetate Crystalline

**Synonyms:**

Sodium Propionate: Propionic acid, sodium salt;

P-Hydroxybenzoic Acid Ethyl Ester: Ethyl 4-hydroxybenzoate; 4-Hydroxybenzoic acid ethyl ester; Ethyl 4-hydroxybenzoate

Chlorohexidine Diacetate Crystalline: 1, 1'-Hexamethylenebis[5-(p-chlorophenyl)biguanide]diacetate;

Bis(p-chlorophenyldiguanidohexane) diacetate; Chlorhexidine diacetate

• **CAS No.:**

Sodium Propionate: 137-40-6

P-Hydroxybenzoic Acid Ethyl Ester: 120-47-8

Chlorohexidine Diacetate Crystalline: 56-95-1

• **Quantity:**

Sodium Propionate: 32.7 mg

P-Hydroxybenzoic Acid Ethyl Ester: 1.96 mg

Chlorohexidine Diacetate Crystalline: 0.14mg

### 3 Hazards identification:

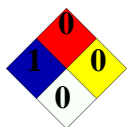
• **Hazard description:**

May cause slight eye and skin irritation.

• **Acute Exposure Effects:**

Eyes: Slight irritation.

Skin: Slight irritation.

**Product Name:** BD Vacutainer® Urinalysis Preservative PLUS Urine Tubes*Inhalation: Not applicable.**Ingestion: Not applicable.***Repeated Exposure Effects:***Eyes: Not applicable.**Skin: Not applicable.**Inhalation: Not applicable.**Ingestion: Not applicable.***Primary Route of Entry:** Eyes, skin, and ingestion**Medical conditions aggravated by overexposure:** Not applicable.● **NFPA ratings (scale 0-4):**Health = 1  
Fire = 0  
Reactivity = 0  
Specific Hazard = N/A● **HMIS ratings (scale 0-4):**Health = 1  
Flammability = 0  
Reactivity = 0  
Special = N/A**4 First aid measures:**● **General information:***After inhalation:* If large amounts are inhaled, remove exposed person to fresh air.*After skin contact:* Remove any contaminated clothing. Immediately flush skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.*After eye contact:* Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart to ensure proper rinsing.*After Swallowing:* If large amounts are swallowed, give water to drink and seek medical advice.*Information for doctor:* Show this label**5 Fire fighting measures:**● **Flash point:** Not applicable.*Autoignition temperature:* Not applicable.*Combustibility:* Not applicable.● **Suitable extinguishing agents:** Use extinguishing media appropriate to the surrounding fire.● **Protective equipment:** Firefighters should wear proper protective equipment and self-contained NIOSH /MSHA approved breathing apparatus.● **Additional Information:** None



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## 6 Accidental release measures:

- **Person-related safety precautions:** Avoid contact with eyes, skin and clothing. Wear suitable protective clothing.
- **Measures for cleaning/collecting:** Ensure adequate ventilation. Keep away from sources of ignition. Take up spill with non-sparking tools and place in a suitable chemical waste container. Wash contaminated area with water.
- **Additional information:** See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment  
See Section 13 for information on disposal

## 7 Handling and storage:

- **Handling:**  
**Information for safe handling:** Keep container tightly closed. When using, do not eat, drink or smoke.
- **Storage:**  
**Requirements to be met by storerooms and receptacles:** Keep containers tightly closed in a cool, well-ventilated place. Protect against direct sunlight. Store away from incompatible material such as strong oxidizing agents.  
**Information about storage in one common storage facility:** Suitable for any general chemical storage area.  
**Further information about storage conditions:** None

## 8 Exposure controls and personal protection:

- **Additional information about design of technical systems:** Use a general exhaust system. A local exhaust system is recommended if conditions of use create worker discomfort.
- **Components with limit values that require monitoring at the workplace:** None
- **Personal Protective Equipment:**  
**General protective and hygienic measures:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.  
**Breathing equipment:** Where exposure is apparent, consult an industrial hygienist. For emergencies, or for instances where the exposure levels are not known, use a full-face, positive pressure, air supplied NIOSH/MSHA approved respirator. Warning: air purifying respirators do not protect workers in oxygen deficient atmospheres.  
**Protection of hands:** Wear suitable protective gloves.  
**Eye protection:** Chemical goggles and/or full face shield where dusting is possible.  
**Body protection:** Protective apron.



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### 09 Physical and chemical properties:

- **General Information:**

*Form:* Powder

*Color:* White

*Odor:* Not applicable.

- *Vapor pressure (@20 °C):* Not applicable.
- *Viscosity (@40 °C) (centistokes):* Not applicable
- *Solubility in/Miscibility w/H<sub>2</sub>O (@20 °C):* Appreciable (>10%)  
*Solubility in other solvents:* Not applicable.
- *Specific gravity (@25/25 °C):* Not applicable.

### 10 Stability and reactivity:

- *Thermal decomposition / conditions to be avoided:* Dusting conditions.
- *Materials to be avoided:* Strong oxidizing agents.
- *Dangerous reactions:* Stable (hazardous polymerization will not occur.)
- *Dangerous products of decomposition:* Carbon monoxide and/or carbon dioxide

### 11 Toxicological information:

- *Acute toxicity:* Not applicable.
- *Chronic toxicity:* Not applicable.
- *Teteragency:* Not applicable.
- *Mutagenicity:* Not applicable.
- *Additional toxicological information:* Not classified as a carcinogen by NTP, IARC or OSHA.

### 12 Ecological information:

- *Ecotoxicological effects:* None identified.

### 13 Disposal considerations:

- **Product:**

**Recommendation**

*Disposal should be done in accordance with local, state and federal regulations.*

*Disposal must be made according to the regulations found in 40 CFR 261.*

*This product is not a RCRA hazardous waste.*



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• **Uncleaned packagings:**

**Recommendation**

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Disposal must be made according to the regulations found in 40 CFR 261.

This product is not a RCRA hazardous waste.

**14 Transport information:**

- **DOT regulations:** Not regulated
- **Land transport ADR/RID (cross-border):** Not Available.
- **Maritime transport IMDG:** Not regulated
- **Air transport ICAO-TI and IATA-DGR:** Not regulated

**15 Regulations:**

- **SARA Section 355 (extremely hazardous substances):** Not listed
- **SARA Section 302 (extremely hazardous substances):** Not listed
- **SARA Section 304 (Reportable Quantity (RQ) under CERCLA):** Not applicable.
- **SARA Section 313 (specific toxic chemical listings):** None
- **TSCA (Toxic Substances Control Act) Inventory:** Not applicable.
- **SARA Section 311/312 (Hazard notification categories under SARA Title III):** Acute: Irritant
- **Hazardous chemical(s) under OSHA Hazard Communication Standard (29 CFR 1910.1200):** Yes
- **Product related hazard information:** Observe the general safety regulations when handling chemicals.
- **California Proposition 65 – Chemicals Known to Cause Cancer:** Not listed  
**California Proposition 65 – Chemicals Known to Cause Reproductive Toxicity:** Not listed
- **Carcinogenicity categories**  
**IARC (International Agency for Research on Cancer):** Not listed  
**NTP (National Toxicology Program):** Not listed  
**TLV (Threshold Limit Value established by ACGIH):** None

**16 Other information:**

To the best of our knowledge, the information contained herein is accurate. However, neither BD or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or 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.

- **Department issuing MSDS:** Regulatory Affairs