



SAFETY DATA SHEET

1. Identification

Product identifier BD Vacutainer® Plus Tubes with Preservative for Urinalysis

Other means of identification

Product code 364943, 364992, 364946, 365017

Recommended use For urine collection and analysis.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name BD Diagnostics, PreAnalytical Systems

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

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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 skin with soap and water.

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 | % |
|-------------------|------------|--------|
| Sodium propionate | 137-40-6 | 90-100 |

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

4. First-aid measures

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

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

Eye contact Flush eyes with water as a precaution. If irritation occurs, get medical assistance.

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

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| Most important symptoms/effects, acute and delayed | This product is not expected to produce adverse effects under normal conditions of use and appropriate personal hygiene. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. |
| General information | No specific first aid measures noted. |
| 5. Fire-fighting measures | |
| Suitable extinguishing media | Use fire-extinguishing media appropriate for surrounding materials. |
| Unsuitable extinguishing media | 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 | Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. |
| Fire fighting equipment/instructions | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | 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 | Collect spillage with shovel, broom or the like and reuse, if possible. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS. |
| Environmental precautions | Environmental manager must be informed of all major spillages. |

7. Handling and storage

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| Precautions for safe handling | 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

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| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Exposure guidelines | No exposure limits noted for ingredient(s). |
| Appropriate engineering controls | No particular ventilation requirements. |
| Individual protection measures, such as personal protective equipment | |
| Eye/face protection | Risk of contact: Wear approved safety goggles. |
| Skin protection | |
| Hand protection | For prolonged or repeated skin contact use suitable protective gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier. |
| Skin protection | |
| Other | No protection is ordinarily required under normal conditions of use. |
| Respiratory protection | Under normal conditions, respirator is not normally required. |
| Thermal hazards | None. |
| General hygiene considerations | 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

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| Appearance | |
| Physical state | Solid. |
| Form | The product is bound on the wall of the device. |
| Color | Not available. |

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|---|-----------------|
| Odor | Not available. |
| Odor threshold | Not applicable. |
| pH | Not applicable. |
| Melting point/freezing point | Not applicable. |
| Initial boiling point and boiling range | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not applicable. |
| Flammability limit - upper (%) | Not applicable. |
| Vapor pressure | Not applicable. |
| Vapor density | Not applicable. |
| Relative density | Not applicable. |
| Solubility(ies) | |
| Solubility (water) | Not applicable. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not applicable. |
| Decomposition temperature | Not applicable. |
| Viscosity | Not applicable. |
| Other information | |
| Density | Not applicable. |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

10. Stability and reactivity

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| Reactivity | The 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 reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | None under normal temperatures and pressures. |

11. Toxicological information

Information on likely routes of exposure

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| Inhalation | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| Skin contact | Under normal conditions of intended use, this material does not pose a risk to health. |
| Eye contact | Under normal conditions of intended use, this material does not pose a risk to health. |
| Ingestion | Under normal conditions of intended use, this material does not pose a risk to health. However, ingestion is not likely to be a primary route of occupational exposure. |

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| Symptoms related to the physical, chemical and toxicological characteristics | Under normal conditions of intended use, this material does not pose a risk to health. |
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Information on toxicological effects

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| Acute toxicity | Not expected to be acutely toxic. |
|-----------------------|-----------------------------------|

| Components | Species | Test Results |
|---|--|--------------|
| Sodium propionate (CAS 137-40-6) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 1640 mg/kg |
| Skin corrosion/irritation | Due to lack of data the classification is not possible. | |
| Serious eye damage/eye irritation | Due to lack of data the classification is not possible. | |
| Respiratory or skin sensitization | | |
| Respiratory sensitization | Due to lack of data the classification is not possible. | |
| Skin sensitization | Due to lack of data the classification is not possible. | |
| Germ cell mutagenicity | Due to lack of data the classification is not possible. | |
| Carcinogenicity | 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 | Due to lack of data the classification is not possible. | |
| Specific target organ toxicity - single exposure | Due to lack of data the classification is not possible. | |
| 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 | None known. | |
| Further information | As supplied, the product is expected to pose no immediate health hazard. The substance is bound on the wall of the device and with proper use it is unlikely to escape the tube as a hazardous dust. | |

12. Ecological information

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| 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. |
| Persistence and degradability | No data available. |
| Bioaccumulative potential | No data available. |
| Mobility in soil | No data available. |
| Mobility in general | No 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

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| 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

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|-------------|-----------------------------------|
| 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 Not applicable.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication 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)

Not 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 chemical No

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 (SDWA) Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

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

Not listed.

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

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

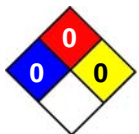
Issue date 23-March-2016

Revision date -

Version #
HMIS® ratings

01
Health: 0
Flammability: 0
Physical hazard: 0

NFPA ratings



References

HSDB® - Hazardous Substances Data Bank
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

Disclaimer

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