



# Material Safety Data Sheet

acc. to ISO/DIS 11014

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Printing Date: 2004-Aug-17

Printing Date: Reviewed on

**Product Name:** BD Vacutainer® Brand Tubes with Sodium Heparin

## 1 Identification of substance:

- **Product Details:**

MSDS Number: VS60305-05

Issue Date: August 11, 2004

Supersedes: VS60305-04

ECO No.: ECO17771

- **Product Name:** BD Vacutainer® Brand Tubes with Sodium Heparin

- **Catalog Numbers:** 366387, 366480, 366481, 367671, 367672, 367673, 367674, 367676, 367734, 367871, 367869, 367872, 367874, 367878, 367879, 368037, 368039, 368046, 368987, 369735  
Discontinued: 005908, 362004, 366483, 366488, 366489, 366541, 367677, 367875, 368004, 368038

- **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 BD Diagnostics, Preanalytical Systems, at (308) 423-0300, or ChemTrec at (800) 424-9300

## 2 Composition/Data on components:

- **Description:**

**Chemical name:** Sodium Heparin

**Synonyms:**

- **CAS No.:** 9041-08-1

- **Quantity:** 0.2-2.8 mg

- **Exposure limits:** N/A

## 3 Hazards identification:

- **Hazard description:**

**EU:** The chemical constituent in this product has not been classified as hazardous under European Directive 91/155/EEC, and 93/112/EC.

**US:**

Inhalation may cause nosebleeds. Avoid contact.

- **Health effects:**

**Acute Exposure Effects:**

Inhalation: May cause nosebleeds

**Repeated Exposure Effects:**

Inhalation: May cause nosebleeds

**Primary route of entry:** Inhalation

**Medical conditions which might be aggravated:** None identified



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- **Physical Hazards:** Avoid generation and accumulation of dusts.

- **NFPA ratings (scale 0-4):**



Health = 1  
Fire = 0  
Reactivity = 0  
Specific Hazard = 0

- **HMIS ratings (scale 0-4):**



Health = 1  
Flammability = 0  
Reactivity = 0  
Special = 0

### 4 First aid measures:

- **General information:**

*After skin contact:* Wash thoroughly with water.

*After eye contact:* Wash thoroughly with water.

*After inhalation:* Move the exposed person to fresh air. Consult a physician.

*After Swallowing:* Dilute with large amounts of water.

*Information for doctor:* Show this label

### 5 Fire fighting measures:

- **Suitable extinguishing agents:** Water spray; dry chemical; carbon dioxide
- **Protective equipment:** Wear self-contained breathing apparatus and suitable protective clothing.

### 6 Accidental release measures:

- **Person-related safety precautions:** Avoid overexposure. Wear suitable protective clothing.
- **Measures for environmental protection:** N/A
- **Measures for cleaning/collecting:** If amount is small, wash area with water. If amount is large, material should be contained in a clean, dry container and covered. Avoid inhalation during cleanup.
- **Additional information:** N/A

### 7 Handling and storage:

- **Handling:**

*Information for safe handling:* Avoid inhalation of dusts.

*Information about protection against explosions and fires:* This material may cause a dust explosion. Avoid dust generation.



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- **Storage:**

**Requirements to be met by storerooms and receptacles:** Product is moisture-sensitive. Store in dark-colored glass or metal containers in a cool, dry place.

**Information about storage in one common storage facility:** Not applicable

**Further information about storage conditions:** None

### 8 Exposure controls and personal protection:

- **Additional information about design of technical systems:** Use local or general ventilation to keep dust levels as low as possible.

- **Components with limit values that require monitoring at the workplace:** Not applicable

- **Additional information:**

- **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. Provide eye bath and safety shower.

**Breathing equipment:** Use OSHA-approved particle/dust mask

**Protection of hands:** Use sterile gloves

**Eye protection:** Use safety glasses

**Body protection:** Wear appropriate protective clothing to prevent skin exposure.

### 09 Physical and chemical properties:

- **General Information:**

**Form:** Powder

**Color:** White

**Odor:** Odorless

- **Change in condition:**

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** Not determined

- **Flash point:** Not applicable

- **Flammability (solid, gaseous):** Not applicable

- **Danger of explosion:** Generation and accumulation of dusts may cause an explosion.

- **Vapor pressure:** Not applicable

- **Density:** Not determined

- **Solubility in/Miscibility w/H<sub>2</sub>O:** Not applicable

- **pH-value:** Not determined

**Organic solvents:** Not available

- **Specific gravity:** 0.8



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### 10 Stability and reactivity:

- **Thermal decomposition / conditions to be avoided:** Avoid generation and accumulation of dusts.
- **Materials to be avoided:** None identified
- **Dangerous reactions:** Stable
- **Dangerous products of decomposition:** None identified

### 11 Toxicological information:

- **Acute toxicity:**
  - Eye: None identified
  - Skin: None identified
  - Inhalation: May cause nosebleeds
  - Ingestion: None identified
- **Primary irritant effect:**
  - On the skin: Not established
  - On the eye: Not established
- **Sensitization:** Not established
- **Additional toxicological information:** Does not contain more than 0.1% by weight of a material listed as a potential carcinogen by NTP, IARC, nor OSHA.

### 12 Ecological information:

- **Ecotoxicological effects:** No data is available on the adverse effects of this material on the environment. Neither COD nor BOD data are available.
- **Other information:** Not applicable
- **General notes:** Not applicable

### 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.
- **Uncleaned packagings:**
  - 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.
  - Recommended cleansing agent**
    - Water, if necessary with cleansing agents
- **General notes:** None



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### 14 Transport information:

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

### 15 Regulations:

- **SARA Section 355 (extremely hazardous substances):** Substance not listed
- **SARA Section 302 (extremely hazardous substances):** None
- **SARA Section 304 (Reportable Quantity (RQ) under CERCLA):** None
- **SARA Section 313 (specific toxic chemical listings):** Substance not listed
- **SARA Section 311/312 (Hazard notification categories under SARA Title III):** Substance not listed
- **Hazardous chemical(s) under OSHA Hazard Communication Standard (29 CFR 1910.1200):** None
- **TSCA (Toxic Substances Control Act) Inventory:** Substance not listed
- **California Proposition 65 – Chemicals Known to Cause Cancer:** Substance not listed
- **California Proposition 65 – Chemicals Known to Cause Reproductive Toxicity:** Substance not listed
- **Carcinogenicity categories**
  - IARC (International Agency for Research on Cancer):** Substance not listed
  - NTP (National Toxicology Program):** Substance not listed
  - TLV (Threshold Limit Value established by ACGIH):** Substance not listed
  - MAK (German Maximum Workplace Concentration):** Substance not listed
- **Product related hazard information:** The product is not subject to OSHA classification according to internal calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **National regulations:** This product has not been classified as hazardous under the Chemicals (Hazard Information and Packaging) regulations.
- **Water hazard class:** Not assigned.

### 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