CHEMICAL PRODUCT AND COMPANY IDENTIFICATION - SECTION 1

Company Identification: Becton Dickinson VACUTAINER® Systems
A Division of Becton Dickinson and Company
1 Becton Drive
Franklin Lakes, NJ 07417-1885

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT:
In the continental U.S., call Chemtrec: 1-800-424-9300
For additional non-emergency information, call: 1-800-631-0174

Product Name: VACUTAINER Brand Urine Preservation Tube

Reorder Numbers: 364948, 364949, 364952, 364961, 364962, 364969, 364971, 364972, 364969, 364976, 364987, 364988, 364965, 364933, 364983, 364945, 364950

Synonym(s): N/A
Chemical Formula: N/A
Chemical Family: N/A

COMPOSITION/ INFORMATION ON INGREDIENTS - SECTION 2

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Exposure Limit</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>D- Sorbitol</td>
<td>50-70-4</td>
<td>None Established</td>
<td>130.8 mg</td>
</tr>
<tr>
<td>Sodium Formate</td>
<td>141-53-7</td>
<td>None Established</td>
<td>32.7 mg</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>10043-35-3</td>
<td>None Established</td>
<td>65.4 mg</td>
</tr>
<tr>
<td>Sodium Acetate</td>
<td>127-09-3</td>
<td>None Established</td>
<td>32.7 mg</td>
</tr>
</tbody>
</table>

HEALTH EFFECTS SUMMARY - SECTION 3

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation of and development of Precautionary Measures and Occupational Control Procedures recommended in this document.

Primary Route of Entry: Skin contact, eye contact, inhalation, and ingestion.

Medical Conditions Which Might be Aggravated: This product may irritate damaged skin.

Acute Exposure Effects:

1. Skin: Product may cause irritation.
2. Eyes: Product may cause irritation.
3. Inhalation: Product may cause irritation of the upper respiratory tract.
4. Ingestion: Product may create nausea, vomiting, gastrointestinal irritation, circulatory failure, convulsions, coma, or may be fatal.

Repeated Exposure Effects:

1. Skin: None identified.
2. Inhalation: None identified.
3. Ingestion: None identified.

EMERGENCY AND FIRST AID PROCEDURES - SECTION 4

Skin: Immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing.
Eyes: Immediately flush with water for at least 15 minutes.
Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen.
Ingestion: INDUCE VOMITING. Give large amounts of water to dilute. Call a physician.

FIRE PROTECTION INFORMATION - SECTION 5

Flash Point: N/A Method: N/A
Autoignition Temperature: N/A Method: N/A
Combustibility: N/A Method: N/A

Extinguishing Media: Use media appropriate for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus operated in positive pressure.

ACCIDENTAL RELEASE MEASURES - SECTION 6

Avoid overexposure. Avoid contact with skin, eyes, or clothing. Wear self-contained breathing apparatus. Carefully shovel material into a clean, dry container and cover. Flush spill area with water.

HANDLING AND STORAGE PROCEDURES - SECTION 7

Keep container tightly closed when not in use. Suitable for any general chemical storage area.

OCCUPATIONAL CONTROL PROCEDURES - SECTION 8

Eye Protection: Use safety goggles when handling. Skin Protection: Use rubber gloves.
Respiratory Protection: If concentration is high, use an appropriate dust mask or respirator.
**Ventilation:** Use general or local exhaust to keep airborne concentrations low.

**Airborne Exposure Limits:** None identified.

**Other Protective Equipment:** Eye bath, safety shower, aprons.

### PHYSICAL PROPERTIES - SECTION 9

**Appearance:** Solid, beige color.  
**Odor:** Odorless.

**Vapor Pressure (@20°C mm Hg):** N/A  
**Viscosity @ 40°C (centistokes):** N/A

**Specific Gravity @ 25/25°C:** N/A  
**Solubility in Water (wt. %):** N/A.

**Solubility in Other Solvents:** N/A

*Note:* These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

### REACTIVITY DATA - SECTION 10

**Reactivity:** Stable

**Incompatibility:** May be incompatible with potassium, strong bases, strong oxidizing agents, and acids.

**Hazardous Decomposition Products:** May create carbon monoxide, carbon dioxide, or oxides of sodium.

**Hazardous Polymerization:** Will not occur.

### TOXICOLOGY INFORMATION - SECTION 11

**Acute Eye Effects:** None identified.  
**Acute Skin Effects:** None identified.

**Inhalation Toxicity:** None identified.  
**Ingestion Toxicity:** None identified.

**Exposure Limits:** Not established.  
**Teratogenicity:** Not established.

**Reproductive Toxicity:** Not established.  
**Mutagenicity:** Not established.

**Synergistic Products:** Not established.  
**Sensitization to Product:** Not established.

**Carcinogenicity:** Contains more than 0.1% by weight of a material listed as a potential carcinogen by:

- **NTP:** No
- **IARC:** No
- **OSHA:** No
Other Chronic Effects: None identified.

Signs and Symptoms of Overexposure: None identified.

Medical Conditions Generally Aggravated by Overexposure: None identified.

ECOLOGICAL INFORMATION - SECTION 12

No data is available on the adverse effects of this material on the environment. Neither COD nor BOD data are available.

DISPOSAL CONSIDERATIONS - SECTION 13

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

TRANSPORTATION INFORMATION - SECTION 14

D.O.T.

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class/I.D. No./Packing Group: N/A.

Label: N/A.

I.M.O.

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class/I.D. No./Packing Group: N/A.

Label: N/A.

I.C.A.O./I.A.T.A.

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class/I.D. No./Packing Group: N/A.

Label: N/A.

REGULATORY INFORMATION - SECTION 15

TSCA Inventory: Yes
Reportable Quantity (RQ) Under US EPA CERCLA Regulations: None

SARA Hazard Notification Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370): None

Section 313 Toxic Chemical(s): None

Hazardous Chemical(s) Under OSHA Hazard Communication Standard: None

OTHER INFORMATION - SECTION 16

Label Information:

WARNING
Causes irritation. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Keep in tightly closed container. Wash hands thoroughly after handling.

Hazard Ratings:

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire -- 1</td>
<td>Health -- 2</td>
</tr>
<tr>
<td>Health -- 2</td>
<td>Flammability -- 1</td>
</tr>
<tr>
<td>Reactivity -- 0</td>
<td>Reactivity -- 0</td>
</tr>
<tr>
<td>Specific Hazard -- 0</td>
<td></td>
</tr>
</tbody>
</table>

Information Contact: Becton Dickinson VACUTAINER® Systems
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1 Becton Drive
Franklin Lakes, NJ 07417-1885

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