

MSDS Number: VS61004-02**Issue Date: 8/26/03****Supersedes: VS61004-01****ECO No.: ECO8175****CHEMICAL PRODUCT AND COMPANY IDENTIFICATION - SECTION 1**

Company Identification: BD Vacutainer Systems, *Preeanalytical Solutions*
A Division of Becton Dickinson and Company
1 Becton Dr.
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: 1-201-847-4688

Product Name: BD Vacutainer Urine C&S Preservative Tube, PLUS Plastic**Reorder Number** 364958, 364959, 364951, 364953, 364954, 364955, 364956, 364957, 364944**Synonym(s):** N/A**Chemical Formula:** N/A**Chemical Family:** N/A**COMPOSITION/ INFORMATION ON INGREDIENTS - SECTION 2**

Chemical	CAS Number	Exposure Limits	Weight of Compounds
Boric Acid	10043-35-3	N/A	27.0%
Sodium Borate	1303-96-4	N/A	21.0%

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: Dermal contact, eye contact, or inhalation.**Medical Conditions Which Might be Aggravated:** None identified.**Acute Exposure Effects:**

- 1. Skin:** May cause slight irritation.
- 2. Eyes:** May cause slight irritation.
- 3. Inhalation:** May cause drying of respiratory tract, which results in irritation, and coughing.
- 4. Ingestion:** Large quantities may cause nausea and vomiting.

Repeated Exposure Effects:

1. **Skin:** Unknown at this time. Similar compounds have been observed to cause localized pain and cyanosis in fingers (arteris) with repeated exposure.
2. **Inhalation:** Unknown at this time.
3. **Ingestion:** Unknown at this time. Similar compounds have been observed to cause changes in thyroid weights, weight loss, musculoskeletal changes.

EMERGENCY AND FIRST AID PROCEDURES - SECTION 4

Skin: Immediately wash skin with soap and water. Rinse thoroughly.

Eyes: Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Then consult a doctor.

Inhalation: Supply fresh air or oxygen. Immediately call a doctor.

Ingestion: Give copious amounts of water to dilute. Seek medical attention.

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: CO2, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special Fire Fighting Procedures: Wear self-contained respiratory protective device. Wear fully protective suit.

ACCIDENTAL RELEASE MEASURES - SECTION 6

For person-related safety precautions: Not required.

Measures for environmental protection: Wipe up with damp sponge or mop.

Measures for cleaning/collecting: Ensure adequate ventilation.

HANDLING AND STORAGE PROCEDURES - SECTION 7

For safe handling, prevent formation of dust. There are no special measures required for protection against explosions and fires. Store away from oxidizing agents, and keep receptacle tightly sealed.

OCCUPATIONAL CONTROL PROCEDURES - SECTION 8

Eye Protection: Use safety glasses.

Skin Protection: Use lab coat, apron and proper gloves.

Respiratory Protection: None required where adequate ventilation conditions exist.

Ventilation: Not required

Airborne Exposure Limits: None identified

Other Protective Equipment: Eye bath, safety shower, aprons. The usual precautionary measures are to be adhered to when handling chemicals.

PHYSICAL PROPERTIES - SECTION 9

<u>Appearance:</u>	solid powder	<u>Odor:</u>	Characteristic
<u>Vapor Pressure (@20° C):</u>	N/A	<u>Viscosity @ 40° C (centistokes):</u>	N/A
<u>Specific Gravity @ 25/25° C:</u>	N/A	<u>Solubility in Water (wt %):</u>	Soluble
<u>Solubility in Other Solvents:</u>	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: No dangerous reactions known **Incompatibility:** strong oxidizers

Hazardous Decomposition Products: No decomposition if used according to specifications

Dangerous Products of Decomposition: Borane/Borane oxides, sodium oxide

Hazardous Polymerization: Not established

TOXICOLOGY INFORMATION - SECTION 11

Acute Eye Effects: May cause irritation. **Acute Skin Effects:** May cause irritation to skin and mucous membranes

Inhalation Toxicity: Not established

Ingestion Toxicity: Not established

Exposure Limits: Not established.

Reproductive Toxicity: Possible risk of impaired fertility

Synergistic Products: Not established.

Teratogenicity: Not established.

Mutagenicity: Not established.

Sensitization to Product: No sensitizing effects known

Carcinogenicity: Not established

Other Chronic Effects: None identified.

Signs and Symptoms of Overexposure: None identified.

Medical Conditions Generally Aggravated by Overexposure: None identified.

Note: This product or product container contains dry natural rubber latex. People with known or suspected allergies to latex should use appropriate safety precautions when handling.

ECOLOGICAL INFORMATION - SECTION 12

Water hazard class 1 (Self assessment): slightly hazardous for water.

DISPOSAL CONSIDERATIONS - SECTION 13

Disposal must be made according to the regulations found in 40 CFR 261. Smaller quantities can be disposed of with solid waste. This product is not considered a RCRA hazardous waste.

TRANSPORTATION INFORMATION - SECTION 14**DOT**

Proper Shipping Name: N/A

Hazard Class/ID No /Packing Group: N/A.

Label: N/A.

IMO

Proper Shipping Name: N/A

Hazard Class/ID No /Packing Group: N/A.

Label: N/A.

ICAO/IATA

Proper Shipping Name: N/A

Hazard Class/ID No /Packing Group: N/A.

Label: N/A.

REGULATORY INFORMATION - SECTION 15

TSCA Inventory: D-mannitol, boric acid, sodium formate, L-Glutamine

California Proposition 65—Chemicals known to cause Cancer: Substances not listed

California Proposition 65—Chemicals known to cause reproductive toxicity: Substances not listed

Reportable Quantity (RQ) Under US EPA CERCLA Regulations: This Product does not contain chemicals having a Reportable Quantity (RQ)

SARA Hazard Notification Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370):

313: Not subject to reporting

355: Not subject to reporting

Hazardous Chemical(s) Under OSHA Hazard Communication Standard: Boric Acid, Sodium Borate

Labelling Requirements per European Directive 88/379/EEC:

Hazard symbols: Xn Harmful

Hazard-determining components of labelling: Boric Acid, Sodium Borate

Risk Phrases:

62 Possible risk of impaired fertility

63 Possible risk of harm to the unborn child

36/37/38 Irritating to eyes, respiratory system, and skin

Safety Phrases:

22 Do not breathe dust

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves, and eye/face protection.

Classification according to VbF: Void

Water hazard class: Water class I (Self-assessment): slightly hazardous for water.

OTHER INFORMATION - SECTION 16**Label Information:**

For all levels of labeling (unit, shelf, and, case) see sections 3 & 15. In addition, for case level, see section 14.

Hazard Ratings:

NEPA

Fire -- 0

Health -- 1

Reactivity -- 0

Specific Hazard -- 0

Information Contact: BD Vacutainer Systems
Technical Services Dept.
1-800-631-0174

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