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## MATERIAL SAFETY DATA SHEET

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Product Group: Thrombin

MSDS Number: VS60320-00

Issue Date: May 15, 1996

Supersedes: New Issue

ERCO No.: R6-0988

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## 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 Tube with ThrombinReorder Numbers: 366525, 367755, 367766, 367776Synonym(s): N/AChemical Formula: N/AChemical Family: N/A

## COMPOSITION/ INFORMATION ON INGREDIENTS - SECTION 2

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Exposure Limit</u>	<u>Weight (mg)</u>
Thrombin	9002-04-4	None Established	0.12 - 0.2 mg

## 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: Eye contact, inhalation, or ingestion.Medical Conditions Which Might be Aggravated: None identified.Acute Exposure Effects:

1. Skin: None identified.
2. Eyes: May cause slight irritation.
3. Inhalation: May cause slight irritation.

mgmt#  
001421  
191557  
321834  
321835

cat#  
366525  
367755  
367766  
367776

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4. Ingestion: May cause slight irritation.

**Repeated Exposure Effects:**

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

**EMERGENCY AND FIRST AID PROCEDURES - SECTION 4**

**Skin:** Wash for 10 minutes.  
**Eyes:** Flush eyes with water for 15 minutes.  
**Inhalation:** Remove victim to fresh air.  
**Ingestion:** Dilute with copious amounts of water.

**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 extinguishing media appropriate for surrounding fire.

**Special Fire Fighting Procedures:** None identified.**Unusual Fire and Explosion Hazards:** Emits toxic fumes under fire conditions.**ACCIDENTAL RELEASE MEASURES - SECTION 6**

Avoid overexposure. Wear appropriate protective clothing to avoid contact or inhalation. Sweep up and place in approved container. Flush area thoroughly with water.

**HANDLING AND STORAGE PROCEDURES - SECTION 7**

Keep container tightly closed when not in use. Avoid contact with skin or eyes. Store in a well-ventilated area. Suitable for any general storage.

**OCCUPATIONAL CONTROL PROCEDURES - SECTION 8****Eye Protection:** Use safety goggles.**Skin Protection:** Use protective gloves.**Respiratory Protection:** None identified.**Ventilation:** Use general exhaust system.

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Airborne Exposure Limits: None identified.Other Protective Equipment: Eye bath, safety shower, aprons.**PHYSICAL PROPERTIES - SECTION 9**Appearance: White powder.Odor: Odorless.Vapor Pressure (@20°C mm Hg): N/AViscosity (@ 40°C (centistokes): N/ASpecific Gravity (@ 25/25°C): N/ASolubility 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: None identified.Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.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 NoIARC NoOSHA NoOther Chronic Effects: None identified.Signs and Symptoms of Overexposure: None identified.Medical Conditions Generally Aggravated by Overexposure: None identified.

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**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.Q./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: None

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

SARA Hazard Notification Hazard Categories Under Criteria of SARA Title III Rules

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(40 CFR Part 370): NoneSection 313 Toxic Chemical(s): NoneHazardous Chemical(s) Under OSHA Hazard Communication Standard: None**OTHER INFORMATION - SECTION 16**Label Information:CAUTION

Keep container tightly closed when not in use. Wash thoroughly after handling.

Hazard Ratings:NEPA

Fire -- 0  
Health -- 1  
Reactivity -- 0  
Specific Hazard -- 0

HMIS

Health -- 1  
Flammability -- 0  
Reactivity -- 0

Information Contact: Becton Dickinson VACUTAINER® Systems  
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