

I- 143156 C- 366388
I- 001419 C- 366485
I- 249959 C- 367889
I- 201833 C- 367682

I- 205008 C- 367687 DMF
I- 450612 C- 365965
I- 178957 C- 365971 DMF
I- 001187 C- 366482
I- 382383 C- 365971

BDVAC
HC # 100

MATERIAL SAFETY DATA SHEET
Product Group: Lithium Heparin

Page 1 of 4

I- 341460 C- 367880
I- 240975 C- 367884
I- 240974 C- 367886

I- 189231
C- 367683
I- 190808
C- 367686

MSDS Number: VS60306-07
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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 and MICROTAINER® Brand Tubes with Lithium Heparin

Reorder No.: 006484, 006543, 385952, 365971, 365965, 365966, 366388, 366482, 366485,
367681, 367682, 367683, 367686, 367687, 367680, 367881, 367884, 367886,
367889, 368006, 368174, 368040, 606654

Synonym(s): N/A **Chemical Formula:** N/A **Chemical Family:** Organic sodium salts.

COMPOSITION/ INFORMATION ON INGREDIENTS - SECTION 2

Chemical Name	CAS Number	Exposure Limits	Weight (mg)
Lithium heparin	9045-22-1	NA	2 - 1.1 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: Inhalation or ingestion.

Medical Conditions Which Might be Aggravated: None identified.

Acute Exposure Effects:

1. Skin: None identified.
2. Eyes: None identified.
3. Inhalation: May cause nosebleeds.
4. Ingestion: None identified.

Repeated Exposure Effects:

1. Skin: None identified.
2. Inhalation: May cause nosebleeds.
3. Ingestion: None identified.

EMERGENCY AND FIRST AID PROCEDURES - SECTION 4

MATERIAL SAFETY DATA SHEET

Page 2 of 4

Product Group: Lithium Heparin

Skin: Wash thoroughly with water.
Eyes: Wash thoroughly with water.
Inhalation: Remove to fresh air. Consult a physician.
Ingestion: Consult 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: Water spray.
Special Fire Fighting Procedures: Firefighters should wear a self-contained breathing apparatus.
Fire & Explosion Hazards: This material may cause a dust explosion.

ACCIDENTAL RELEASE MEASURES - SECTION 6

Avoid overexposure. If amount is small, rinse with water. If amount is large, contain spill and place into a clean, dry container and cover. Wash area with water.

HANDLING AND STORAGE PROCEDURES - SECTION 7

Product is extremely hygroscopic. Store in a tightly-closed dark glass or metal container. Store in a cool, dry place. Avoid inhalation.

OCCUPATIONAL CONTROL PROCEDURES - SECTION 8

Eye Protection: Use safety glasses. **Skin Protection:** Use sterile gloves.
Respiratory Protection: Use an OSHA approved particle/dust mask.
Ventilation: Use general or local exhaust ventilation to keep dust levels as low as possible.
Airborne Exposure Limits: None
Other Protective Equipment: Eye bath, safety shower, aprons.

PHYSICAL PROPERTIES - SECTION 9

Appearance: White crystals. **Odor:** Odorless.
Vapor Pressure (@20°C mm Hg): N/A **Viscosity (@ 40°C (centistokes):** N/A
Specific Gravity (@ 25/25°C): 0.5 **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: None identified.

Hazardous Decomposition Products: None identified.

Hazardous Polymerization: Will not occur.

TOXICOLOGY INFORMATION - SECTION 11

Acute Eye Effects: None identified.

Inhalation Toxicity: May cause nosebleeds.

Exposure Limits: Not established.

Reproductive Toxicity: Not established.

Synergistic Products: Not established.

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

NTP No

IARC No

QSHA No

Acute Skin Effects: None identified.

Ingestion Toxicity: None identified.

Teratogenicity: Not established.

Mutagenicity: Not established.

Sensitization to Product: Not established.

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. (not-regulated)

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

Label: N/A.

I.M.O.

Proper Shipping Name: Chemicals, N.O.S. (not-regulated)

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

Label: N/A.

I.C.A.Q./I.A.T.A.

MATERIAL SAFETY DATA SHEET

Page 4 of 4

Product Group: Lithium Heparin

Proper Shipping Name: Chemicals, N.O.S. (not-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 (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:****CAUTION**

Low hazard for usual industrial or commercial handling. Use only with adequate ventilation and avoid breathing the dust. Keep container closed. Wash thoroughly after handling.

Hazard Ratings:**NFPA**

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

HMIS

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

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

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