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	<b>VACUETTE® LH Lithium Heparin  Blood Collection Tube</b>	

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** VACUETTE® LH Lithium Heparin Blood Collection Tube
- **Manufacturer/Supplier:**

### AUSTRIA

Greiner Bio-One GmbH  
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### USA

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Emergency phone number: (+1) 888-286-3883

### BRASIL

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Produtos Médicos Hospitalares Ltda.  
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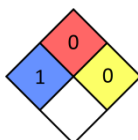
### THAILAND

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Emergency phone number: (+66) 38-465633

- **Recommended use/restrictions of use :**  
To collect, transport and process blood for testing in the clinical laboratory. To be used only by trained healthcare professionals according to instructions of use.


## SECTION 2: HAZARDS IDENTIFICATION

- **Classification according to NFPA 704 (Possible Rating 0-4)**  
**Health Rating:** 1 – slight  
**Flammability Rating:** 0 – none  
**Reactivity Rating:** 0 – none



- **Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]:**  
Substance is not classified
- **Classification according to EU Directives 67/548/EEC or 1999/45/EC:**  
Substance is not classified
- **Pictogram:** N/A
- **Signal Word:** N/A
- **Hazard Statements:** N/A
- **Precautionary Statements:**

**P260** Do not breathe dust/fume/gas/mist/vapors/spray  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P337+P313** If eye irritation persists, get medical attention.  
**P264** Wash hands after handling.  
**P314** Get medical attention if you feel unwell.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical name:** Lithium Heparin
- **CAS No.** 9045-22-1
- **Quantity of substances:** < 1% (mass %)  
Because of trade secrets, not all components and their percentages are listed.

### SECTION 4: FIRST AID MEASURES

- **Health effects:**  
**Acute exposure effect:**  
Inhalation: May cause nosebleeds  
**Repeated Exposure Effects:**  
Inhalation: May cause nosebleeds  
**Primary route of entry:** Inhalation  
**Medical conditions which might be aggravated:** None identified
- **Skin:** Wash thoroughly with water.
- **Eyes:** Wash thoroughly with water.
- **Inhalation:** Move the exposed person to fresh air. Consult a physician.
- **After swallowing:** Dilute with large amounts of water. Consult a physician.
- **Information for doctor:** Show this label

### SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable extinguishing media:** Water spray; dry chemical; carbon dioxide
- **Protective equipment:** Wear self-contained breathing apparatus and suitable protective clothing.
- **Special hazards arising from the substance or mixture:** none identified

### SECTION 6: ACCIDENTAL RELEASE MEASURES


- **Personal precautions:** Avoid overexposure. Wear suitable protective clothing.
- **Methods for cleaning up:** 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.
- **Methods of containment:** Keep in suitable, closed containers for disposal.
- **Emergency procedures:** Avoid overexposure. Evacuate personnel to safe areas.

### SECTION 7: HANDLING AND STORAGE

- **Handling:**  
**Advice for safe handling:** Avoid inhalation of dusts.  
**Information about protection against explosions and fires:** This material may cause a dust explosion. Avoid dust generation.
- **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:** N/A

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **OSHA PEL:** N/A
- **AGCIH TLV:** N/A
- **Other recommended limits:** N/A
- **Appropriate engineering controls:** Use local or general ventilation to keep dust levels as low as possible.
- **Control parameters:** N/A

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- **Personal protective equipment:**  
**General protective and hygienic measures:** Wash thoroughly after handling. Remove contaminated 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 an appropriate dust mask  
**Hand protection:** Use proper gloves.  
**Eye protection:** Use safety goggles  
**Body protection:** Wear appropriate protective clothing to prevent skin exposure.
- **Hygiene measures:** N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



- **Appearance:**  
**Form:** Crystalline powder  
**Color:** White
- **Odor:** Odorless
- **Odor Threshold:** N/A
- **PH-value:** N/A
- **Melting point / Melting range:** Not determined
- **Initial boiling point / boiling range:** Not determined
- **Flash point:** N/A
- **Flammability (solid, gaseous):** N/A
- **Danger of explosion:** Generation and accumulation of dusts may cause an explosion.
- **Vapor pressure:** N/A
- **Density:** N/A
- **Solubility in/Miscibility w/H<sub>2</sub>O:** Soluble
- **Organic solvents:** N/A
- **Solids content:** N/A
- **Partition coefficient: n-octanol/water:** N/A
- **Auto-ignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Oxidizing properties:** N/A

## SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** No data available
- **Chemical Stability:** No data available
- **Possibility of hazardous reactions:** No data available
- **Conditions to avoid:** Avoid generation and accumulation of dusts.
- **Incompatible materials:** No data available
- **Hazardous decomposition products:** Oxides of nitrogen, carbon monoxide, carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity** (LD 50 oral, rat > 200 mg/kg)  
**Eye:** None identified  
**Skin:** None identified  
**Inhalation:** May cause irritation  
**Ingestion:** None identified
- **Primary irritant effect:**  
**On the skin:** Not established  
**On the eye:** Not established
- **Sensitization:** Not established
- **Additional toxicological information:** None identified

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## SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicological effects:** No data is available on the adverse effects of this material on the environment.
- **Other information:** N/A
- **General notes:** N/A

## SECTION 13: DISPOSAL CONSIDERATION

- **Product: Recommendation**  
 Disposal should be done in accordance with all federal, state and local environmental regulations. Disposal must be made according to the regulations found in 40 CFR 261. This product is not a hazardous waste according to local regulations.
- **Packaging: Recommendation**  
 Disposal should be done in accordance with all federal, state and local environmental regulations. Disposal must be made according to the regulations found in 40 CFR 261. This product is not a hazardous waste according to local regulations.  
**Recommended cleansing agent**  
 Water, if necessary with cleansing agents

## SECTION 14: TRANSPORT INFORMATION

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

## SECTION 15: REGULATORY INFORMATION

- **OSHA, 29 CFR 1910.1200(g), and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009**
- **EC directives: 91/155/EEC, 93/112/EC, 88/379/EEC**
- **Water hazard class:** N/A
- **Note:** Please note that there may be additional legal provisions to be observed. We recommend that you keep yourself informed about all applicable international, national and local regulations.

## SECTION 16: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Greiner Bio-One nor any of its subcontractors or suppliers assumes any liability 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.