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	VACUETTE® LH Lithium Heparin Sep Blood Collection Tube	

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

AUSTRIA

Greiner Bio-One GmbH
 Bad Haller Strasse 32
 4550 Kremsmünster
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 Tel: (+43) 7583 6791-0
 Fax: (+43) 7583 6791-1114
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USA

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 4238 Capital Drive
 Monroe, NC 28110
 USA
 Tel: (+1) 888-286-3883
 FAX: (+1) 800-726-0052
 Email: info@us.gbo.com
 Emergency phone number: (+1) 888-286-3883

BRASIL

Greiner Bio-One Brasil
 Produtos Médicos Hospitalares Ltda.
 Av. Affonso Pansan no. 1.967
 13473-620 Vila Bertini
 Americana, São Paulo - Brasil
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 Fax: (+55) 19 3468-9601
 Email: info@br.gbo.com
 Emergency phone number: (+55) 19 3468-9600

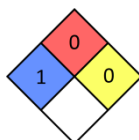
THAILAND

Greiner Bio-One (Thailand) Ltd.
 700/172 Moo. 1 Amata Nakorn Industrial Estate
 Tambon Bankao, Amphur Phanthong
 Chonburi 20160
 Tel: (+66) 38-465633
 Fax: (+66) 38-465635
 Email: office@th.gbo.com
 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
Gel (proprietary)
 - **CAS No.** Lithium Heparin 9045-22-1
Gel N/A
 - **Quantity of substances:** Lithium Heparin < 1% (mass %)
Gel (proprietary) 10 – 15 % (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

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- **Appropriate engineering controls:** Use local or general ventilation to keep dust levels as low as possible.
- **Control parameters:** N/A
- **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

- **General information**
Form: Lithium Heparin: Crystalline powder
 Gel: Paste mixture
Color: Lithium Heparin: White
 Gel: semitransparent, pale yellow, milky white
Odor: Almost odorless
- **Odor Threshold:** N/A
- **PH-value:** N/A
- **Change in condition**
 Melting point/Melting range: N/A
 Boiling point/Boiling range: N/A
- **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:** Lithium Heparin: N/A
 Gel: 1,04 – 1,07 g/cm³
- **Solubility in/Miscibility w/H₂O:** Lithium Heparin: Soluble
 Gel: Insoluble
- **Organic solvents:** N/A
- **Specific gravity:** 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.

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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

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.
Recommend 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.