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| | VACUETTE® LH Lithium Heparin Sep | |

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

AUSTRIA

Greiner Bio-One GmbH
Bad Haller Strasse 32
4550 Kremsmünster
Austria
Tel: (+43) 7583 6791-0
Fax: (+43) 7583 6791-1114
Email: office@at.gbo.com

USA

Greiner Bio-One North America Inc.
4238 Capital Drive
Monroe, NC 28110
USA
Tel: (+1) 888-286-3883
FAX: (+1) 800-726-0052
Email: info@us.gbo.com

BRASIL

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

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

SECTION 2: HAZARDS IDENTIFICATION

- **Hazard description:**
 - EU:** The chemical constituent in this product has not been classified as hazardous under European Directive 91/155/EEC, and 93/112EC.
 - US:** Inhalation may cause nosebleeds. Avoid contact.
- **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
- **Physical Hazards:** Avoid generation and accumulation of dusts.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Description:** VACUETTE PET Tube (Polyethyleneterephthalate) with
- **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 %)
- **Exposure limits:** N/A

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SECTION 4: FIRST AID MEASURES

- **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.

SECTION 6: ACCIDENTAL RELEASE MEASURES


- **Personal precautions:** Avoid overexposure. Wear suitable protective clothing.
- **Environmental precautions:** N/A
- **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.

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

- **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

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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
- **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

SECTION 10: STABILITY AND REACTIVITY


- **Thermal decomposition / conditions to avoid:** Avoid generation and accumulation of dusts.
- **Materials to avoid:** None identified
- **Dangerous reactions:** None identified
- **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

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

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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

- **Hazard Communication Standard (HCS) 29 CFR 1910.1200(g), revised in 2012**
- **EC directives: 91/155/EEC, 93/112/EC, 88/379/EEC**
- **National regulations: Chemical (Hazard Information and Packaging) Regulations: ChemG (Austria)**
- **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.