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	<b>VACUETTE® CAT Serum Fast Separator          Blood Collection Tube</b>	

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** VACUETTE® CAT Serum Fast Separator Blood Collection Tube
- **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](mailto:office@at.gbo.com)  
 Emergency phone number: (+43) 7583 6791-0
- **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:**  
Substance is not classified
- **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
- **Signal Word:** N/A
- **Pictogram:** N/A
- **Precautionary Statements:**  
  

<b>P202:</b>	Do not handle until all safety precautions have been read and well understood as well
<b>P280:</b>	Wear protective gloves and clothing, use eye and face protection respectively
<b>P281:</b>	Use mandated personal protective equipment
<b>P308+P313:</b>	At exposure or if affected: seek medical advice
<b>P302+P352:</b>	If on skin: wash with soap and plenty of water
<b>P305+P351+P338:</b>	If in eyes: rinse with caution with water for several minutes; remove contact lenses if present and easy to do, continue rinsing
<b>P405:</b>	Store in locked up storage rooms
<b>P501:</b>	Dispose contents and container according to local guidelines and regulations respectively

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical name:** Blood Clotting Accelerator  
Gel (proprietary)
  - **CAS No.** N/A
  - **Quantity of substances:** Blood Clotting Accelerator < 1% (mass %)  
Gel (proprietary) 10 – 15 % (mass %)
- Because of trade secrets, not all components and their percentages are listed

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#### SECTION 4: FIRST AID MEASURES

- **General Note:** Show MSDS to doctor or physician! Avoid inducing or enforcing vomiting. First aider: pay attention on self-protection.
- **If in eyes:** Immediately rinse cautiously with plenty of water with opened eyelid for at least 10 minutes; if eye irritation persists get medical advice/attention and seek ophthalmologist respectively.
- **If on skin:** Wash thoroughly with water and soap and rinse with plenty of water. If skin irritation persists or you feel unwell seek medical advice/attention.
- **If inhaled:** N/A
- **If swallowed:** Immediately rinse mouth thoroughly with water for several times. Drink lots of water if conscious; if problems persist, seek medical advice.

#### SECTION 5: FIRE-FIGHTING MEASURES

- **Not considered to be a fire or explosion hazard**
- **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:** N/A

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Avoid overexposure. Ensure adequate and effective ventilation if spilled; wear protective clothing and gloves, use eye protection
- **Methods for cleaning up:** Wipe up, clean up with water; dispose collected material according to official set of regulations
- **Methods of containment:** Keep in suitable containers for disposal
- **Emergency procedures:** Evacuate personnel to safe areas

#### SECTION 7: HANDLING AND STORAGE

- **Handling:**  
**Advice for safe handling:** Keep container tightly closed. Suitable for any general chemical storage area. Avoid inhalation of dusts. Consider and follow common measures on industrial hygiene; ensure adequate and effective ventilation at workplace; keep container, equipment, hardware and working place clean; avoid contact with skin, eyes and clothing. Do not eat drink or smoke in areas where this product is used, handled, stored or processed. Wash hands and face thoroughly with soap and water and rinse with plenty of water at the end of a working day and at breaks before eating, drinking and smoking respectively.
- **Information about protection against explosions and fires:** Avoid contact with incompatible material, minimize dust generation and accumulation.
- **Storage:**  
 Keep container tightly sealed in a cool, dry, dark and well ventilated storage-room where the floor is made from impermeable material separated from incompatibles substances, foodstuffs, beverages, stimulants and animal feed. Keep away from oxidizing agents. Recommended storage temperature: 4 - 25°C.  
**Requirements to be met by storerooms and receptacles:** Keep container tightly closed.  
**Information about storage in one common storage facility:** Suitable for any general chemical storage area.


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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Exposure limits:**  
 OSHA PEL: N/A  
 ACGIH TLV : N/A  
 Other recommended limits: N/A
- **Additional information about design of technical systems:** N/A
- **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:** Wear proper gloves.  
**Eye protection:** Use safety goggles.  
**Body protection:** Wear appropriate protective clothing to prevent skin exposure.
- **Special requirements for PPE:** N/A
- **Hygiene measures:** Do not eat drink or smoke in areas where this product is used, handled, stored or processed. Wash hands and face thoroughly with soap and water and rinse with plenty of water after use, at the end of a working day and at breaks before eating, drinking and smoking respectively; apply skin protecting cream. Store strictly separated from foodstuffs, beverages, stimulants and animal feed. Keep working and private clothes separated, undress contaminated clothing and shoes and wash/clean them before reuse.
- **Appropriate engineering controls:** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:**  
**Form:** Blood Clotting Accelerator: aqueous suspension  
 Gel: Paste mixture  
**Color:** Blood Clotting Accelerator: Milky white  
 Gel: semitransparent, pale yellow, milky white
- **Odor:** Odorless
- **Odor Threshold:** N/A
- **PH-value:** 6,5 – 8,5
- **Melting point / Melting range:** N/A
- **Initial boiling point / boiling range:** ~100°C
- **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:** Blood Clotting Accelerator: n.a.  
 Gel: 1,03 – 1,06 g/cm<sup>3</sup>
- **Solubility in/Miscibility w/H<sub>2</sub>O:** Blood Clotting Accelerator: miscible with water except insoluble constituents  
 Gel: Insoluble
- **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

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#### SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** No data available
- **Chemical Stability:** No decomposition according to intended application and storage
- **Possibility of hazardous reactions:** No data available
- **Conditions to avoid:** No data available
- **Incompatible materials:** No data available
- **Hazardous decomposition products:** May form under fire conditions – nitrogen oxides, carbon oxides.

#### SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity:** (LD 50 oral, rat > 200 mg/kg)  
**Eye:** may cause eye irritation  
**Skin:** may cause skin irritation  
**Inhalation:** None identified  
**Ingestion:** may be harmful if swallowed
- **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. 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. This product is not a hazardous waste according to local regulations.
- **Recommended cleansing agent:** N/A

#### 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.

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**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.