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	<b>VACUETTE® Z Serum Clot Activator Blood Collection Tube</b>	

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** VACUETTE® Z Serum Clot Activator Blood Collection Tube
- **Manufacturer/Supplier:**

### AUSTRIA

Greiner Bio-One GmbH  
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### USA

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### BRASIL

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### THAILAND

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- **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:**

**P202:** Do not handle until all safety precautions have been read and well understood as well

**P280:** Wear protective gloves and clothing, use eye and face protection respectively

**P281:** Use mandated personal protective equipment



**P308+P313:** At exposure or if affected: seek medical advice

**P302+P352:** If on skin: wash with soap and plenty of water

**P305+P351+P338:** If in eyes: rinse with caution with water for several minutes; remove contact lenses if present and easy to do, continue rinsing

**P405:** Store in locked up storage rooms

**P501:** Dispose contents and container according to local guidelines and regulations respectively

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical name:** Blood Coagulant Accelerator
- **CAS No.** N/A
- **Quantity of substances:** < 1%  
Because of trade secrets, not all components and their percentages are listed

### 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:** not applicable
- **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



- **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:** 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:** N/A
- **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: 18 - 25°C.

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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:** None identified
- **Control parameters:** N/A
- **Personal protective equipment:**  
**General protective and hygienic measures:** N/A  
**Breathing equipment:** N/A  
**Hand protection:** Use proper gloves.  
**Eye protection:** wear protective goggles with lateral protection according to EN 166.  
**Body protection:** Wear appropriate protective clothing to prevent skin exposure.
- **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.
- **Special requirements for PPE:** N/A
- **Appropriate engineering controls:** adequate and effective ventilation

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:**  
**Form:** aqueous suspension (Almost 96% water)  
**Color:** 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:** approx. 1,04 g/cm<sup>3</sup> (at 25°C)
- **Solubility in/Miscibility w/H<sub>2</sub>O:** miscible with water except insoluble constituents
- **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:** No data available
- **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:** 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

- **Ecotoxilogical 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.

## 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.