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|   | <b>VACUETTE® K2E K2EDTA</b><br><b>Blood Collection Tube</b>     |  |

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** VACUETTE® K2E K2EDTA 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  
Emergency phone number: (+43) 7583 6791-0

### 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  
Emergency phone number: (+55) 19 3468-9600

### 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](mailto:info@us.gbo.com)  
Emergency phone number: (+1) 888-286-3883

### 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](mailto:office@th.gbo.com)  
Emergency phone number: Tel: (+66) 38-465633

- **Recommended use / restrictions of use :**  
To collect, transport and process blood for testing serum, plasma or whole blood 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:** 1 – slight  
**Reactivity Rating:** 0 – none



- **Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]:**  
**Skin irritation:** Category 2  
**Eye irritation:** Category 2A  
**Acute toxicity:** Category 4 (Oral)  
**Specific target organ toxicity:** Category 3 (Respiratory tract irritation)
- **Classification according to EU Directives 67/548/EEC or 1999/45/EC:**  
Irritating to eyes, respiratory system and skin



- **Signal Word:** Warning
- **Hazard Statements:**  
**H315** Causes Skin irritation  
**H319** Causes serious eye irritation  
**H335** May cause respiratory irritation

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- **Precautionary Statements:**  
**P261** Avoid breathing 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.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical name:** Ethylenediaminetetraacetic Acid Dipotassium Dihydrate (EDTA K2)
- **CAS No.** 25102-12-9
- **Quantity of EDTA K2:** < 1% (mass %)  
Because of trade secrets, not all components and their percentages are listed

### SECTION 4: FIRST AID MEASURES

- **Hazard description:**  
May cause eye and skin irritation. Causes respiratory tract irritation and gastrointestinal irritation. Avoid generation and accumulation of dusts.
- **Acute exposure effect:**  
May cause skin and eye irritation. Inhalation causes respiratory tract irritation. Ingestion causes gastrointestinal irritation with nausea, vomiting and diarrhea.
- **Skin:** Wash with soap and copious amounts of water.
- **Eyes:** Flush eyes with copious amounts of water for at least 15 minutes.
- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen.
- **Ingestion:** Victim should drink copious amounts of water to dilute. Get medical attention.

### SECTION 5: FIRE-FIGHTING MEASURES

- **Not considered to be a fire or explosion hazard**
- **Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.
- **Protective equipment:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full-face piece operated in positive pressure mode.
- **Special hazards arising from the substance or mixture:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Potassium oxides

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Avoid overexposure. Wear suitable protective clothing.
- **Methods for cleaning up:** Carefully sweep up and remove. Flush area with water.
- **Methods of containment:** Dispose as of hazardous waste. Keep in suitable, closed containers for disposal
- **Emergency procedures:** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. 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.  
**Information about protection against explosions and fires:** Avoid contact with incompatible material, minimize dust generation and accumulation.
- **Storage:**  
**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
- **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:** N/A
- **Appropriate engineering controls:** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:**  
**Form:** Crystalline powder  
**Color:** White
- **Odor:** Odorless
- **Odor Threshold:** N/A
- **PH-value:** 4.0 - 5.0 at 40.4 g/L at 25°C (77°F)
- **Melting point / Melting range:** 255° – 280°C (491° - 536°F) – dec.
- **Initial 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:** N/A
- **Solubility in/Miscibility w/H<sub>2</sub>O:** ca. 40.4 g/L at 20°C (68°F)
- **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:** May form under fire conditions – nitrogen oxides (NO<sub>x</sub>), carbon oxides, potassium oxides

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#### SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity** (LD 50 oral, rat > 200 mg/kg)  
**Eye:** May cause irritation  
**Skin:** May cause irritation  
**Inhalation:** Causes respiratory tract irritation  
**Ingestion:** Causes digestive tract irritation
- **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.

#### 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.