SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** VACUETTE® K3E K3EDTA Liquid 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 114
  Email: office@at.gbo.com
  Emergency phone number: (+43) 7583 6791-0

  **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
  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
  Tel: +55 (19) 3468-9600
  Fax: +55 (19) 3468-9601
  Email: info@br.gbo.com
  Emergency phone number: (+55) 19 3468-9600

- **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
SAFETY DATA SHEET
acc. to ISO 11014, 29 CFR 1910.1200

VACUETTE® K3E K3EDTA Liquid Blood Collection Tube

- 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 Tripotassium Dihydrate K3EDTA solution
- CAS No. K3EDTA: 65501-21-8
- Quantity of substances: < 4 %
  Because of trade secrets, not all components and their percentages are listed

SECTION 4: FIRST AID MEASURES

- Hazard description:
  My cause eye and skin irritation. Causes respiratory tract irritation and gastrointestinal irritation. Avoid generating dust or dust accumulation.
- 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

- 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 (NOx), 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.
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.
- Hygiene measures: N/A
- Appropriate engineering controls: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- General information
  **Form:** Liquid
  **Color:** Colorless, clear solution
  **Odor:** Odorless
- **Odor threshold:** N/A
- **pH-value:** N/A
- **Change in condition**
  Melting point/Melting range: not determined
  Boiling point/Boiling range: not determined
- **Flash point:** N/A
- **Flammability (solid, gaseous):** N/A
- **Danger of explosion:** Product does not present an explosion hazard
- **Vapor pressure:** Not determined
- **Density:** N/A
- **Solubility in/Miscibility w/H₂O:** N/A
- **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:** May form under fire conditions – nitrogen oxides (NOx), carbon oxides, potassium oxides
SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity** (LD 50 oral rat > 200 mg/kg)
  - **Eye:** May cause irritation
  - **Skin:** May cause irritation
  - **Inhalation:** May cause irritation
  - **Ingestion:** Not established

  **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.