 greiner bio-one Page 1 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200	 greiner bio-one A AN SOP 04.03.02-032 Rev.01 Valid from: Sept 12, 2016
	VACUETTE® K3E K3EDTA Blood Collection Tube	

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** VACUETTE® K3E K3EDTA 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

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. Afonso 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

THAILAND

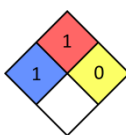
Greiner Bio-One (Thailand) Ltd.
 700/172 Moo. 1 Amata Nakorn Industrial Estate
 Tambon Bankao, Amphur Phanthong
 Chonburi 20160
 Tel: (+66) 38-465633
 Fax: (+66) 38-465635
 Email: office@th.gbo.com
 Emergency phone number: (+66) 38-465633

- **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

 greiner bio-one Page 2 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200	 greiner bio-one A AN SOP 04.03.02-032 Rev.01 Valid from: Sept 12, 2016
	VACUETTE® K3E K3EDTA 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 (EDTA K3)
- **CAS No.** 65501-21-8
- **Quantity of substances:** < 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



- **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_x), 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.

 greiner bio-one Page 3 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200	 greiner bio-one A AN SOP 04.03.02-032 Rev.01 Valid from: Sept 12, 2016
	VACUETTE® K3E K3EDTA Blood Collection Tube	

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

- **Appearance:**
Form: Crystalline powder
Color: White
- **Odor:** Odorless
- **Odor Threshold:** N/A
- **PH-value:** 7,0-9,0
- **Melting point / Melting range:** 182°C
- **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/H₂O:** 44,3 g/l
- **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_x), carbon oxides, potassium oxides

 greiner bio-one Page 4 / 4	SAFETY DATA SHEET acc. to ISO 11014, 29 CFR 1910.1200	 greiner bio-one A AN SOP 04.03.02-032 Rev.01 Valid from: Sept 12, 2016
	VACUETTE® K3E K3EDTA Blood Collection Tube	

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.