

22040055



Material Safety Data Sheet

Greiner Labortechnik GmbH
in cooperation with 29 CIE 1990 1200 (S) 10
Bod. Müller-Strasse 32 4550 Krefeld
Tel.: 0049 2583 6791-0 Fax: 0049 2583 6318 Austria

Date: 06/01/98

Product name: VACUETTE® Coagulation Tubes

Substance specifications:

Components	Content	CAS No.
citric acid	4.2 g/l	5949-29-1
tri-sodium citrate	32 g/l	6132-04-3

Product Order Numbers: 454321, 454322, 454323, 454327, 454331, 454332, 454381, 454383, 454386, 454387

Physical / chemical properties:

Features	Citric Acid	Tri-sodium Citrate
Appearance	white crystals	white powder
Odor	none	none

Classification of hazardous and harmful properties

Not available

Exposure and First Aid / Treatment Information

Eyes: Immediately wash eyes with running water for at least 15 min. Assure adequate flushing of eyes by separating the eyelids with fingers.

Skin: Immediately wash skin with soap and running water. Consult a physician if required.

Inhalation: Move to a place where the air is fresh. If not breathing, give artificial respiration in case of hard breathing, give oxygen.

Ingestion: Wash mouth out with water. Consult a physician.

Fire Protection Information

Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Extinguishing agent: Use foam, carbon dioxide, and powder extinguishing agents. Water spray.

Unusual Hazards: Material is capable of creating dust explosion.

FORM : MSDS

Page: 1 of 3

Accidental Release Information

Wear proper protection such as NIOSH approved respiration, chemical safety goggles, rubber boots and chemical resistant gloves to avoid contact with skin and eyes.

Sweep up spill and place in closed container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

Handling and Storage Information

Use suitable container and keep tightly closed when not in use. Store in cool dry place.

Hazardous Property Information

Flash point: n/a

Ignition point: n/a

Combustibility: n/a

Reactivity: Stable

Hazardous Decomposition Products: toxic fumes of carbon monoxide, carbon dioxide

Incompatibility: Avoid bases, reducing agents, oxidizing agents

Toxicological Information

Maybe harmful by inhalation, ingestion, or skin absorption.

May cause eye irritation.

May cause skin irritation.

Material may be irritating to the mucous membranes and upper respiratory tract. Prolonged repeated exposure may cause allergic reactions in certain sensitive individuals.

Environmental Pollution Information

No data is available

Disposal Information

Disposal should be done in accordance with all federal, state and local environmental regulations.

Regulatory Information

NOHS 1983: H2D X3648, NIS 11, TNE 715, NOS 15, TNE 17300, TFE 9926

NOHS 1974: H2D 68905, NIS 165, TNE 38675, NOS 97, TNE 200416

NOHS 1983: H2D E0257, NIS 1, TNE 403, NOS 5, TNE 4020, TFE 2015

NOHS 1983: H2D 68905, NIS 96, TNE 13473, NOS 105, TNE 301805, TFE 163142

EPA TSCA Section 8(f) Chemical Inventory

Chem. MSDS

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Transportation Information

Make sure there is no leakage from the vessel. Carry out the loading in such a way that the packages will not fall down, drop or get damaged, taking measure to prevent collapse during transportation. Transport product at 0 - 40 °C, a voiding direct sunlight.

Other Information

Contact Information.

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Bad Hailer Strasse 32
A-4550 Ketschenmuenster
AUSTRIA
Tel: (43) 7583 67910
Fax: (43) 7583 6318
Email: office@labor.greiner.at

Contact Information in U.S.

Greiner Vacuette® North America, Inc.
260 Gateway Drive, Suite 17A
Bel Air, MD 21014
Tel: (888) 286-3883
Fax: (410) 836-8317
Email: GreinerMed@aol.com

To the best of our knowledge, the information contained herein is accurate. However, neither C.A. Greiner & Sohne GmbH nor any of its subsidiaries 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 end 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.

MATERIAL SAFETY DATA SHEET
Product Group: Dipotassium EDTA

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MSDS Number: VS60311-07
Issue Date: September 15, 2000
Supersedes: March 27, 2000
EPCO No.: 101850



Indispensable to human health

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION - SECTION 1

Becton Dickinson VACUTAINER® Systems
A Division of Becton Dickinson and Company
1 Becton Drive
Franklin Lakes, NJ 07417-1885

0268798
0268399 D.C.
02687107
02685113

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT: 02685113
In the continental U.S., call Chemtrec: 1-800-424-9300
For additional non-emergency information, call: 1-800-631-0174

Product Name: VACUTAINER® Brand Tube with Dipotassium EDTA

Reorder Number: 360001, 360002, 360003, 360004, 365955, 365973, 365974, 366660, 366662, 367648, 367649, 367656, 367840, 367841, 367842, 367843, 367844, 367845, 367846, 367855, 367856, 367859, 367861, 367862, 367863, 367865, 368021, 368171, 367906, 367907, 367908, 367909

Synonym(s): N/A Chemical Formula: N/A Chemical Family: Complexing agent.

COMPOSITION/INFORMATION ON INGREDIENTS - SECTION 2

Chemical Name	CAS Number	Exposure Limits	Weight (mg)
Dipotassium EDTA	25102-12-9	NA	1.3 - 9.7 mg

HEALTH EFFECTS SUMMARY - SECTION 3

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation and development of Precautionary Measures and Occupational Control Procedures recommended in this document.

Primary Route of Entry: None identified.

Medical Conditions Which Might be Aggravated: None identified.

Acute Exposure Effects:

1. Skin: May cause irritation.
2. Eyes: May cause irritation.
3. Inhalation: None identified.
4. Ingestion: None identified.

Repeated Exposure Effects:

1. Skin: None identified.
2. Inhalation: None identified.
3. Ingestion: None identified.

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MATERIAL SAFETY DATA SHEET
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EMERGENCY AND FIRST AID PROCEDURES - SECTION 4

Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes.
Eyes: Immediately flush with plenty of water for at least 15 minutes.
Inhalation: Move the exposed person to fresh air.
Ingestion: Immediately give large amounts of water. Get medical attention.



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FIRE PROTECTION INFORMATION - SECTION 5

Flash Point: N/A Method: N/A
Autoignition Temperature: N/A Method: N/A
Combustibility: N/A Method: N/A
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

ACCIDENTAL RELEASE MEASURES - SECTION 6

Avoid overexposure. Wear suitable protective clothing. Carefully sweep up and remove. Flush area with water.

HANDLING AND STORAGE PROCEDURES - SECTION 7

Keep container tightly closed. Suitable for any general chemical storage area.

OCCUPATIONAL CONTROL PROCEDURES - SECTION 8

Eye Protection: Use safety goggles. Skin Protection: Use proper gloves.
Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate dust mask.

Ventilation: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

Airborne Exposure Limits: None identified

Other Protective Equipment: Eye bath, safety shower, aprons.

PHYSICAL PROPERTIES - SECTION 9

Appearance: White crystalline powder. Odor: Odorless
Vapor Pressure (@ 20°C, mm Hg): N/A Viscosity (@ 40°C (centistokes): N/A
Specific Gravity (@ 25/25°C): N/A Solubility in Water (wt. %): Complete (100%)
Solubility in Other Solvents: N/A

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Becton Dickinson and Company

Received In
LSH Quality Management
Department

JUL 13 2004

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REACTIVITY DATA - SECTION 10

Reactivity: Stable
Incompatibility: None identified
Hazardous Decomposition Products: Oxides of nitrogen, carbon monoxide, carbon dioxide
Hazardous Polymerization: Will not occur.



TOXICOLOGY INFORMATION - SECTION 11

Acute Eye Effects: May cause irritation.
Inhalation Toxicity: May cause irritation.
Exposure Limits: Not established.
Reproductive Toxicity: Not established.
Synergistic Products: Not established.
Carcinogenicity: Contains more than 0.1% by weight of a material listed as a potential carcinogen by:
NTP No
IARC No
OSHA No
Acute Skin Effects: May cause irritation.
Ingestion Toxicity: None identified.
Teratogenicity: Not established.
Mutagenicity: Not established.
Sensitization to Product: Not established.
Other Chronic Effects: None identified.
Signs and Symptoms of Overexposure: None identified.
Medical Conditions Generally Aggravated by Overexposure: None identified.

ECOLOGICAL INFORMATION - SECTION 12

No data is available on the adverse effects of this material on the environment. Neither COD nor BOD data are available.

DISPOSAL CONSIDERATIONS - SECTION 13

Disposal should be done in accordance with local, state and federal regulations.

TRANSPORTATION INFORMATION - SECTION 14

D.O.I.
Proper Shipping Name: Chemicals, N.O.S. (Non-regulated)

Hazard Class/ID No./Packing Group: N/A.

Label: N/A.

I.M.O.

Proper Shipping Name: Chemicals, N.O.S. (Non-regulated)

Hazard Class/ID No./Packing Group: N/A.

Label: N/A.

I.C.A.O. A.T.A.

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Label: N/A.

REGULATORY INFORMATION - SECTION 15

TSCA Inventory: Yes
Reportable Quantity (RQ) Under US EPA CERCLA Regulations: None
SARA Hazard Notification Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370): None
Section 313 Toxic Chemical(s): None
Hazardous Chemical(s) Under OSHA Hazard Communication Standard: None

OTHER INFORMATION - SECTION 16

Label Information:

May cause irritation. During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

Hazard Ratings:

NFPA
Fire - 1
Health - 1
Reactivity - 0
Specific Hazard - 0
HMIS
Health - 1
Flammability - 1
Reactivity - 0

Information Contact:

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1 Becton Drive
Franklin Lakes, NJ 07417-1885

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