

SAFETY DATA SHEET

1. Identification

Product identifier BD Vacutainer® K2EDTA Tubes

Other means of identification

Product code 362089, 364661, 364664, 367838, 368274, 368499, 365300, 365312, 365329, 365330, 365331,

365900, 366164, 366643, 367386, 367525, 367839, 367864, 367873, 367918, 367924, 367941,

367950, 367978, 368267, 368834, 368841, 368843, 368856, 368860

Blood collection (In-Vitro Diagnostic) device for collecting blood samples for analysis Recommended use

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Becton Dickinson UK Ltd. Company name

Address The Danby Building, Edmund Halley Road

Oxford Science Park, OX4 4DQ, Oxford, United Kingdom

Telephone UK: +44 (0) 1752 701281

USA: 800-631-0174

pas_tech_services@bd.com e-mail

1.4. Emergency telephone

number

Chemtrec EU 703-527-3887 US 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Acute toxicity, inhalation **Health hazards** Category 4

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if inhaled.

Precautionary statement

Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Prevention

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison Response

center/doctor if you feel unwell.

Store away from incompatible materials. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Low hazard for recommended handling by trained personnel.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Dipotassium dihydrogen ethylenediaminetetraacetate		25102-12-9	100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

BD Vacutainer® K2EDTA Tubes SDS US 1/7

4. First-aid measures

Inhalation No specific precautions due to the small quantities handled. However: Remove victim to fresh air

and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if

vou feel unwell.

Skin contact No specific precautions due to the small quantities handled. However: Wash skin thoroughly with

soap and water. Get medical attention if irritation develops and persists.

No specific precautions due to the small quantities handled. However, rinse with water. Do not rub **Eve contact**

eye. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if

Under normal conditions of intended use, this material does not pose a risk to health.

irritation develops and persists.

No specific precautions due to the small quantities handled. However: Rinse mouth thoroughly if Ingestion

dust is ingested. Get medical attention if any discomfort occurs.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

General fire hazards

Dry chemical. Foam.

Carbon dioxide (CO2).

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases

hazardous to health may be formed.

the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in

Use standard firefighting procedures and consider the hazards of other involved materials.

Containers close to fire should be removed or cooled with water.

The product is not flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid dust formation. Avoid inhalation of dust and contact with skin and eyes. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear suitable protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground unless authorized by permit.

7. Handling and storage

Precautions for safe handling

No specific precautions due to the small quantities handled. However: Explosion-proof general and local exhaust ventilation. Minimize dust generation and accumulation. Provide adequate ventilation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Keep the workplace clean. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a cool, dry place.

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m3.

BD Vacutainer® K2EDTA Tubes SDS US

Individual protection measures, such as personal protective equipment

Eye/face protection It is a good industrial hygiene practice to minimize eye contact. Risk of contact: Wear dust

goggles.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other No skin protection is ordinarily required under normal conditions of use. In accordance with good

industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protectionNo protection is ordinarily required under normal conditions of use and with adequate ventilation. If

engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Wash hands after handling and before eating. Keep away from food and drink.

considerations

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Crystalline.
Color White.
Odor Odorless.

Odor threshold Not applicable.

PH Not applicable.

Melting point/freezing point 485.6 °F (252 °C)

Initial boiling point and boiling Decomposes.

range

Booonipoodo.

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Fine particles may form explosive mixtures with air.

Upper/lower flammability or explosive limits

Flammability limit - lower Not applicable.

(%)

Flammability limit - upper Not applicable.

(%)

Vapor pressureNot applicable.Vapor densityNot applicable.Relative densityNot available.

Solubility(ies)

Solubility (water) 108 g/l (20°C, pH: 5.3)

Partition coefficient Log Pow: -4.3 (25°C, pH: 4.5)

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive.

Molecular formula C10H16N2O8.2H2O.2K

Oxidizing properties Not oxidizing.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

927965

BD Vacutainer® K2EDTA Tubes SDS US

Conditions to avoid Avoid dust formation.

Incompatible materials

None known.

Hazardous decomposition

products

Thermal decomposition: > 150°C.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled. Dust may irritate respiratory system.

Skin contactDust may irritate skin.Eye contactDust may irritate the eyes.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Under normal conditions of intended use, this material does not pose a risk to health.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Components Species Test Results

Dipotassium dihydrogen ethylenediaminetetraacetate (CAS 25102-12-9)

Acute Oral

LD50 Rat

3735 mg/kg, (Male) 3690 mg/kg, (Female)

Skin corrosion/irritation Serious eye damage/eye Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

irritation

Respiratory or skin sensitization

Respiratory sensitizationDue to lack of data the classification is not possible. **Skin sensitization**Due to lack of data the classification is not possible.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Due to lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityDue to lack of data the classification is not possible. **Specific target organ toxicity -**Due to lack of data the classification is not possible.

single exposure

Specific target organ toxicity - Due to lack of data the classification is not possible.

repeated exposure

Aspiration hazardBased on available data, the classification criteria are not met.

Chronic effects

No other specific chronic health impact noted.

Further information

No additional adverse health effects noted.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Dipotassium dihydrogen ethylenediaminetetraacetate (CAS 25102-12-9)

Aquatic

Crustacea EC0 Daphnia magna 310 mg/l, 24 hours

BD Vacutainer® K2EDTA Tubes SDS US

927965 Version #: 01 Revision date: - Issue date: 15-September-2015

Components Species Test Results

EC100 Daphnia magna 1250 mg/l, 24 hours EC50 Daphnia magna 610 - 625 mg/l, 24 hours

Bioaccumulative potential Based on available data, the classification criteria are not met.

Mobility in soil No data available.

Mobility in general The product is slightly soluble in water.

Other adverse effects The product is not volatile but may be spread by dust-raising handling.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not established.

Not listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

BD Vacutainer® K2EDTA Tubes SDS US

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

Inventory name

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 15-September-2015

Revision date - 01

United States & Puerto Rico

HMIS® ratings Health: 2

Flammability: 1 Physical hazard: 0

NFPA ratings



List of abbreviations

LD50: Lethal Dose, 50%.

EC0: Effective Concentration 0%. EC50: Effective Concentration, 50%. EC100: Effective Concentration 100%.

BD Vacutainer® K2EDTA Tubes SDS US

No

On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

References REACH dossier for substance.

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity

DisclaimerBD Diagnostics Preanalytical Systems cannot anticipate all conditions under which this information

and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

This SDS contains revisions in the following section(s):

1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 15, 16.

BD Vacutainer® K2EDTA Tubes SDS US

927965 Version #: 01 Revision date: - Issue date: 15-September-2015