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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

Product No.:	Product name:	Common name(s), synonym(s)
762165	PAXgene® Blood RNA Tube	No data available

### Recommended restrictions

**Recommended use:** Scientific and industrial laboratory use. For In Vitro Diagnostic Use.

**Restrictions on use:** For External Use Only

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 1 Becton Drive  
Franklin Lakes, NJ 07417  
USA

Telephone: 1 800 631 0174  
Fax: 1 201 847 4866  
Contact Person: Technical Services  
E-mail: productcomplaints@bd.com

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1

#### Environmental Hazards

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Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 2

### Label Elements

#### Hazard Symbol:



<b>Signal Word:</b>	Danger
<b>Hazard Statement:</b>	H315: Causes skin irritation. H318: Causes serious eye damage. H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.

#### Precautionary Statements

<b>Prevention:</b>	P264: Wash thoroughly after handling. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment.
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<b>Response:</b>	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P310: Immediately call a POISON CENTER/doctor. P321: Specific treatment (see on this label). P363: Wash contaminated clothing before reuse. P391: Collect spillage.
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<b>Disposal:</b>	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
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Other hazards which do not result in GHS classification: None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Tetradecyltrimethylammonium oxalate	No data available.	154858-16-9	3 - 5%
tartaric acid	No data available.	87-69-4	1 - 5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

<b>General information:</b>	Get medical attention if symptoms occur. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.
<b>Inhalation:</b>	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.
<b>Skin Contact:</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.



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**Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.

**Personal Protection for First-aid Responders:** No data available.

**Most important symptoms and effects, both acute and delayed Symptoms:** Symptoms may be delayed.

**Hazards:** May cause an allergic skin reaction. Causes skin irritation.  
Causes serious eye damage.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**5. Fire-fighting measures**

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Special hazards arising from the substance or mixture:** Fire or excessive heat may produce hazardous decomposition products.

**Special protective equipment and precautions for fire-fighters**

**Special fire-fighting procedures:** No unusual fire or explosion hazards noted.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

**Accidental release measures:**

No data available.

**Methods and material for containment and cleaning up:**

Stop leak if possible without any risk. Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**Environmental Precautions:**

Avoid release to the environment.

## 7. Handling and storage

### Handling

**Technical measures:**

No data available.

**Local/Total ventilation:**

No data available.

**Safe handling advice:**

Do not get in eyes, on skin, on clothing. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance measures:**

No data available.

### Storage

**Safe storage conditions:**

Store in tightly closed original container in a dry, cool and well-ventilated place.

**Safe packaging materials:**

No data available.



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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

#### Biological Limit Values

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

#### Appropriate Engineering Controls

Adequate ventilation should be provided whenever the material is heated or mists are generated.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection:

Wear safety glasses with side shields (or goggles).

### Skin Protection

#### Hand Protection:

Material: Use suitable protective gloves if risk of skin contact.

#### Skin and Body Protection:

Wear appropriate clothing to prevent repeated or prolonged skin contact.



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**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Hygiene measures:**

Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Appearance**

**Physical state:** Liquid

**Form:** Liquid

**Color:** Clear

**Odor:** Odorless

**Odor Threshold:** No data available.

**Freezing point:** No data available.

**Boiling Point:** No data available.

**Flammability:** No data available.

**Upper/lower limit on flammability or explosive limits**

**Explosive limit - upper:** No data available.

**Explosive limit - lower:** No data available.

**Flash Point:** No data available.

**Self-ignition:** No data available.

**Decomposition Temperature:** No data available.

**pH:** No data available.

**Viscosity**



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**Dynamic viscosity:** No data available.  
**Kinematic viscosity:** No data available.  
**Flow Time:** No data available.

**Solubility(ies)**

**Solubility in Water:** No data available.  
**Solubility (other):** No data available.  
**Partition coefficient (n-octanol/water):** No data available.  
**Vapor pressure:** No data available.  
**Relative density:** No data available.  
**Density:** No data available.  
**Bulk density:** No data available.  
**Vapor density (air=1):** No data available.

**Other information**

No data available

## 10. Stability and reactivity

**Reactivity:** No data available.  
**Chemical Stability:** No data available.  
**Possibility of hazardous reactions:** None under normal conditions.  
**Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.  
**Incompatible Materials:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** By heating and fire, harmful vapors/gases may be formed.

## 11. Toxicological information

**General information:** May cause allergic skin reaction based on human experience. Irritating.





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### Information on likely routes of exposure

<b>Inhalation:</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin Contact:</b>	Prolonged or repeated contact may cause skin sensitization in susceptible individuals. Causes skin irritation.
<b>Eye contact:</b>	Causes serious eye damage.
<b>Ingestion:</b>	Ingestion may cause irritation and malaise.

### Acute toxicity (list all possible routes of exposure)

#### Oral

<b>Product:</b>	ATEmix, 7,669.42 mg/kg
<b>Components:</b>	
Tetradecyltrimethylammonium oxalate	No data available.
tartaric acid	No data available.

#### Dermal

<b>Product:</b>	ATEmix, 59,765.72 mg/kg
<b>Components:</b>	
Tetradecyltrimethylammonium oxalate	No data available.
tartaric acid	No data available.

#### Inhalation

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Components:</b>	
Tetradecyltrimethylammonium oxalate	No data available.
tartaric acid	No data available.

#### Repeated dose toxicity

<b>Product:</b>	No data available.
<b>Components:</b>	
Tetradecyltrimethylammonium oxalate	No data available.
tartaric acid	NOAEL Cat, Other route of exposure (excluding dermal, oral and inhalation), 4 Months, 75 mg/kg, Experimental result, Weight of Evidence study Other route of exposure (excluding dermal, oral and inhalation) LOAEL Cat, Other route of exposure (excluding dermal, oral and inhalation), 4 Months, 100 mg/kg, Experimental result, Weight of Evidence study Other route of exposure (excluding dermal, oral and inhalation)

#### Skin Corrosion/Irritation



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**Product:** No data available.  
**Components:**  
Tetradecyltrimethylammo No data available.  
nium oxalate  
tartaric acid Irritating, medical monitoring, Human, Experimental result, Weight of Evidence study

#### **Serious Eye Damage/Eye Irritation**

**Product:** No data available.  
**Components:**  
Tetradecyltrimethylammo No data available.  
nium oxalate  
tartaric acid No data available.

#### **Respiratory or Skin Sensitization**

**Product:** No data available.  
**Components:**  
Tetradecyltrimethylammo No data available.  
nium oxalate  
tartaric acid No data available.

#### **Carcinogenicity**

**Product:** No data available.  
**Components:**  
Tetradecyltrimethylammo No data available.  
nium oxalate  
tartaric acid No data available.

#### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:**

No carcinogens present or none present in regulated quantities

#### **Germ Cell Mutagenicity**

##### **In vitro**

**Product:** No data available.  
**Components:**  
Tetradecyltrimethylammo No data available.  
nium oxalate  
tartaric acid No data available.

##### **In vivo**

**Product:** No data available.  
**Components:**



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Tetradecyltrimethylammo  
nium oxalate                      No data available.  
tartaric acid                      No data available.

**Reproductive toxicity**

**Product:**                      No data available.  
**Components:**  
Tetradecyltrimethylammo      No data available.  
nium oxalate  
tartaric acid                      No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:**                      No data available.  
**Components:**  
Tetradecyltrimethylammo      No data available.  
nium oxalate  
tartaric acid                      No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:**                      No data available.  
**Components:**  
Tetradecyltrimethylammo      No data available.  
nium oxalate  
tartaric acid                      No data available.

**Aspiration Hazard**

**Product:**                      No data available.  
**Components:**  
Tetradecyltrimethylammo      No data available.  
nium oxalate  
tartaric acid                      No data available.

**Information on health hazards**

**Other hazards**

**Product:**                      No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**



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#### **Fish**

<b>Product:</b>	No data available.
<b>Components:</b>	
Tetradecyltrimethylamm onium oxalate	No data available.
tartaric acid	LC 50, Various, 96 h, 884 g/l, QSAR, Supporting study QSAR LC 50, Various, 96 h, > 100 mg/l, QSAR, Weight of Evidence study QSAR LC 50, Danio rerio, 96 h, > 100 mg/l Static, Experimental result, Key study LC 50, Various, 96 h, 506 g/l, QSAR, Supporting study QSAR LC 50, 96 h, 1,385.96 mg/l, QSAR, Weight of Evidence study QSAR

#### **Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
Tetradecyltrimethylamm onium oxalate	No data available.
tartaric acid	No data available.

#### **Toxicity to Aquatic Plants**

<b>Product:</b>	No data available.
<b>Components:</b>	
Tetradecyltrimethylammo nium oxalate	No data available.
tartaric acid	No data available.

#### **Toxicity to microorganisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
Tetradecyltrimethylammo nium oxalate	No data available.
tartaric acid	No data available.

#### **Chronic hazards to the aquatic environment:**

##### **Fish**

<b>Product:</b>	No data available.
<b>Components:</b>	
Tetradecyltrimethylamm onium oxalate	No data available.
tartaric acid	No data available.

##### **Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
Tetradecyltrimethylamm onium oxalate	No data available.
tartaric acid	No data available.



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### Toxicity to microorganisms

**Product:** No data available.

**Components:**

Tetradecyltrimethylammonium oxalate No data available.

tartaric acid No data available.

### Persistence and Degradability

#### Biodegradation

**Product:** No data available.

**Components:**

Tetradecyltrimethylammonium oxalate No data available.

tartaric acid 75 %, 14 d, Experimental result, Weight of Evidence study Detected in water.

76 %, 14 d, Experimental result, Weight of Evidence study Detected in water.

85 %, 28 d, Experimental result, Key study Detected in water.

100 %, 14 d, Experimental result, Weight of Evidence study Detected in water.

100 %, 14 d, Experimental result, Weight of Evidence study Detected in water.

#### BOD/COD Ratio

**Product:** No data available.

**Components:**

Tetradecyltrimethylammonium oxalate No data available.

tartaric acid No data available.

#### Bioaccumulative potential

##### Bioconcentration Factor (BCF)

**Product:** No data available.

**Components:**

Tetradecyltrimethylammonium oxalate No data available.

tartaric acid No data available.

##### Partition Coefficient n-octanol / water (log K<sub>ow</sub>)

**Product:** No data available.

**Components:**

Tetradecyltrimethylammonium oxalate No data available.



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tartaric acid -2.02 - -0.76, No, Estimated by calculation, Weight of Evidence study

**Mobility in soil:**

**Product:** No data available.  
**Components:**  
Tetradecyltrimethylammonium oxalate No data available.  
tartaric acid No data available.

**Results of PBT and vPvB assessment:**

**Product:** No data available.  
**Components:**  
Tetradecyltrimethylammonium oxalate No data available.  
tartaric acid No data available.

**Other adverse effects:**

**Other hazards**  
**Product:** No data available.

**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.  
  
Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:** No data available.

**14. Transport information**

Environmental Hazards



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Environmentally Hazardous: No

Marine Pollutant: No

#### **IATA**

Not Regulated.

#### **IMDG**

Not Regulated.

#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

### **15. Regulatory information**

#### **US Federal Regulations**

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

None present or none present in regulated quantities.

##### **US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

##### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended**

None present or none present in regulated quantities.



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**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting**

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**





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## US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

#### Kyoto protocol

Not applicable

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

**Version #:** 3.3

**Generation date:** 01/05/2024

**Date of first report  
version:** 09/24/2015

### Abbreviations and acronyms:

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EC<sub>x</sub> - Concentration associated with x% response; EHS - Extremely Hazardous Substance; EL<sub>x</sub> - Loading rate associated with x% response; EmS -

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Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further Information:** No data available.



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