



### 1. Identification

Product identifier	PAXgene® Blood RNA Tube	
Other means of identification		
SDS number	VS60342	
Product code	762115, 762125, 762165, 769979, 769999	
Recommended use	Blood Collection Tube.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Supplier		
Company name	Becton, Dickinson and Company	
Address	Belliver Industrial Estate	
	Belliver Way, Roborough, Plymouth , PL6 7BP, United Kingdom	
Telephone	+44 (0) 1752 237280	
Contact person	Not available.	
e-mail	help.plymouth@europe.bd.com	
1.4. Emergency telephone number	+44 (0) 1752 701281	

### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		

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Signal word	Danger
Hazard statement	Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wear protective gloves/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Wash thoroughly after handling. Avoid release to the environment.
Response	If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Collect spillage.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

# 3. Composition/information on ingredients

#### Mixtures

Mixtures			
Chemical name		CAS number	%
Tetradecyltrimethylammonium oxalate		-	< 10
(+)-Tartaric acid		87-69-4	2-4
Composition comments	All concentrations are in percent by weight unle percent by volume.	ess ingredient is a gas. Gas	concentrations are in
4. First-aid measures			
Inhalation	Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.		
Skin contact	Remove contaminated clothing. Immediately flush skin with plenty of water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions. Wash off with soap and plenty of water. Wash clothing separately before reuse.		
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and oper eyelids wide apart. Get medical attention immediately. Continue to rinse.		
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not use mouth-to-mouth method if victim ingested the substance. Get medical attention if any discomfort continues.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include s vision. Permanent eye damage including blindr and pain. Sensitization.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat	t symptomatically.	
General information	Ensure that medical personnel are aware of the protect themselves.	e material(s) involved, and ta	ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for su	rrounding materials.	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatt	er and spread fire.	
Specific hazards arising from the chemical	By heating and fire, toxic vapors/gases may be	formed.	
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefightin the workplace. Self-contained breathing appara case of fire.		
Fire fighting equipment/instructions	Use standard firefighting procedures and consi	der the hazards of other inv	olved materials.
General fire hazards	The product itself does not burn.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes. See Section See Section 8 of the SDS for Personal Protection		rotective Equipment
Methods and materials for containment and cleaning up	Wipe up spilled material and place in a suitable flush area with water. For waste disposal, see		owing product recov
Environmental precautions	Do not discharge into drains, water courses or informed of all releases.	onto the ground. Environme	ntal manager must b
7. Handling and storage			
Precautions for safe handling	Avoid contact with skin and eyes. Persons susproduct. Wear appropriate personal protective release to the environment. Do not empty into a	equipment. Wash thoroughl	y after handling. Avo
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated place. Store	-	

### 8. Exposure controls/personal protection

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Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Exposure guidelines	No exposure limits noted for ingredient(s).	
Appropriate engineering controls	No particular ventilation requirements. Provide easy access to water supply and eye wash facilities.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear approved safety goggles.	
Skin protection		
Hand protection	Wear protective gloves. Nitrile gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.	
Other	Wear appropriate clothing to prevent repeated or prolonged skin contact.	
Respiratory protection	Under normal conditions, respirator is not normally required.	
Thermal hazards	None.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

## 9. Physical and chemical properties

5. Thysical and chemical p	o per lies
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Clear.
Odor	Characteristic.
Odor threshold	Not available.
рН	3.7 (20°C)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Vapor pressure	23 hPa (20°C)
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Completely miscible with water.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

#### 10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Oxidizing agents. Reducing agents. Acids. Bases. Alkalies.
Hazardous decomposition products	Carbon oxides. Ammonia.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	In high concentrations, vapors may be irritating to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin contact: May cause redness and pain. Sensitization.
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#### Information on toxicological effects

Acute toxicity

Components	Species	Test Results	
Tetradecyltrimethylammonium ox	alate (CAS -)		
Acute			
Inhalation			
LD50	Rat	390 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Based on available data, the cla	Based on available data, the classification criteria are not met.	
Skin sensitization	May cause an allergic skin react	May cause an allergic skin reaction.	
Germ cell mutagenicity	Based on available data, the cla	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the cla	Based on available data, the classification criteria are not met.	
OSHA Specifically Regulate	ed Substances (29 CFR 1910.100	1-1050)	
Not listed.			
Reproductive toxicity	Based on available data, the cla	ssification criteria are not met.	
Specific target organ toxicity - single exposure	Based on available data, the cla	ssification criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the cla	ssification criteria are not met.	
Aspiration hazard	Based on available data, the cla	ssification criteria are not met.	
Chronic effects	No other specific chronic health	mpact noted.	
Further information	No data available.		
12. Ecological information	n		
Ecotoxicity	Toxic to aquatic life with long las	ting effects.	
Components	Species	Test Results	

Amphipod (Echinogammarus tibaldii)

LC50

Crustacea

17 - 23 mg/l, 24 hours

Bioaccumulative potential	No data available.
Mobility in soil	This product is water soluble and may disperse in soil.
Mobility in general	The product is water soluble and may spread in water systems.
Other adverse effects	No data available.

## 13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of waste and residues in accordance with local authority requirements.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

DOT	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Tetradecyltrimethylammonium oxalate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Tetradecyltrimethylammonium oxalate)
Transport hazard class(es)	
Class	9
Subsidiary risk	
Label(s)	9
Packing group	
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Tetradecyltrimethylammonium oxalate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.
15. Regulatory information	

#### **US** federal regulations

This product is hazardous according to OSHA 29 CFR 1910.1200.

Not regulated.		
	ed Substances (29 CFR 1910.1001-1050)	
Not listed. CERCLA Hazardous Subst	ance List $(A0 \text{ CER } 302 \text{ A})$	
Not listed.		
	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes	
-	Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely haza	rdous substance	
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
SARA 313 (TRI reporting) Not regulated.		
ther federal regulations		
-	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
Clean Air Act (CAA) Section	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
S state regulations		
US. Massachusetts RTK -	Substance List	
Not regulated. US. New Jersey Worker an	d Community Right-to-Know Act	
Not listed. US. Pennsylvania Worker a	and Community Right-to-Know Law	
Not listed. US. Rhode Island RTK		
Not regulated.		
US. California Proposition Not Listed.	65	
ternational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no
Australia	Australian Inventory of Chemical Substances (AICS)	N
Canada	Domestic Substances List (DSL)	Ν
Canada	Non-Domestic Substances List (NDSL)	N
China	Inventory of Existing Chemical Substances in China (IECSC)	Ν
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Ye
Europe	European List of Notified Chemical Substances (ELINCS)	N
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N
Korea	Existing Chemicals List (ECL)	Ν
New Zealand	New Zealand Inventory	Ν
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Ν
	(FICCS)	

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).

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

16. Other information, including date of preparation or last revision		
Issue date	16-April-2015	
Revision date	16-April-2015	
Version #	02	
Further information	HMIS® is a registered trade and service mark of the NPCA.	
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0	
NFPA ratings	300	
References	ACGIH: American Conference of Governmental and Industrial Hygienists. EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices	
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