

Printing Date: 2005-May-26

Printing Date: Reviewed on

Product Name: PAXgene™ Blood RNA Tube

1 Identification of substance:

- **Product Details:**

MSDS Number: VS60342-06

Issue Date: May 26, 2005

Supersedes: VS60342-05

ECO No.: ECO30346

- **Product Name:** PAXgene™ Blood RNA Tube

- **Catalog Numbers:** 762115, 762125, 762165, 769979, 769999

- **Manufacturer/Supplier:**

BD Diagnostics, Preanalytical Systems

1 Becton Drive

Franklin Lakes, NJ, 07417-1885

- **Information Department:**

Paxgene™ Blood RNA Tube is manufactured by BD Diagnostics, Preanalytical Systems for PreAnalytiX.

BD Diagnostics, Preanalytical Systems Technical Service, (800) 631-0174

- **Emergency Information:**

In case of a chemical emergency, spill, fire, exposure, or accident contact ChemTrec at (800) 424-9300

2 Composition/Data on components:

- **Description:** Proprietary mixture

Chemical name: Proprietary

- **CAS No.:** PAS0005

- **Quantity:** 2.5 – 10%

- **Exposure limits:** N/A

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3 Hazards identification:

- **Hazard description:**



R43 May cause sensitization by skin contact

Xi Irritant



R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

N Dangerous for the environment

Information pertaining to particular dangers for human and environment:

The product is required to be labeled due to the calculation procedure of the "General Classification Guideline for Preparations of the EU" in the latest valid version.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company literature and data.

- **Acute Exposure Effects:**

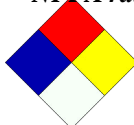
Eyes: Irritating to the eyes.

Skin: Irritating to the skin and mucous membranes. May cause skin sensitization.

Inhalation: None identified.

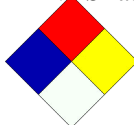
Ingestion: None identified.

- **NFPA ratings (scale 0-4):**



Health = 2
Fire = 0
Reactivity = 0
Specific Hazard = 0

- **HMIS ratings (scale 0-4):**



Health = 2
Flammability = 0
Reactivity = 0
Special = 0

4 First aid measures:

- **General information:**

After inhalation: Move the exposed person to fresh air. Consult a physician in case of complaints.

After skin contact: Immediately flush skin with plenty of soap and water for at least 15 minutes.

After eye contact: Immediately flush with plenty of water for at least 15 minutes while holding eyelids apart. Consult a physician.

After Swallowing: Get immediate medical attention.

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Information for doctor: Show this label

5 Fire fighting measures:

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Firefighters should wear proper protective equipment and self-contained breathing apparatus. Do not inhale explosion gases or combustion gases.

6 Accidental release measures:

- **Person-related safety precautions:** Avoid overexposure. Wear suitable protective clothing. Provide adequate ventilation.
- **Measures for environmental protection:** Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Carefully sweep up and remove. Flush area with water.
- **Additional information:** N/A

7 Handling and storage:

- **Handling:**
Information for safe handling: No special measures required.
Information about protection against explosions and fires: No special measures required.
- **Storage:**
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None

8 Exposure controls and personal protection:

- **Additional information about design of technical systems:** No further data
- **Components with limit values that require monitoring at the workplace:** This product does not contain any relevant quantities of material with critical values that require monitoring in the workplace.
- **Personal Protective Equipment:**
General protective and hygienic measures: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.
Breathing equipment: None required where adequate ventilation conditions exist.
Protection of hands: Use appropriate gloves

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Eye protection: Use safety goggles
Body protection: Wear appropriate protective clothing to prevent skin exposure.

09 Physical and chemical properties:

- **General Information:**
 - Form:* Liquid
 - Color:* Clear
 - Odor:* Characteristic
- **Change in condition:**
 - Melting point/Melting range:* Undetermined
 - Boiling point/Boiling range:* Undetermined
- **Flash point:** Not Applicable
- **Autoignition:** Product is not self-igniting
- **Danger of explosion:** Product does not present an explosion hazard
- **Vapor pressure at 20 °C:** 23 hPa
- **Density:** Not determined
- **Solubility in/Miscibility w/H₂O:** Fully miscible
- **pH-value at 20 °C:** 3.7

10 Stability and reactivity:

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications
- **Materials to be avoided:** None identified
- **Dangerous reactions:** Reacts with acids, alkalis and oxidizing agents
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information:

- **Acute toxicity:**
 - Eye:* Irritating to the eyes
 - Skin:* Irritating to the skin and mucous membranes
- **Primary irritant effect:**
 - On the skin:* Irritating to the skin and mucous membranes
 - On the eye:* Irritating to the eyes
- **Sensitization:** May cause skin sensitization.
- **Additional toxicological information:** None identified.

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12 Ecological information:

- **Ecotoxicological effects:** Toxic for fish and aquatic organisms.
- **Other information:** Also poisonous for fish and plankton in water bodies. Do not allow undiluted product or large quantities of product to reach ground water, water course or sewage system.
- **General notes:** Water Hazard Class 2 (German regulation) (Self-assessment): hazardous for water.

13 Disposal considerations:

- **Product:**
Recommendation
Product must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal should be done in accordance with local, state and federal regulations.
Disposal must be made according to the regulations found in 40 CFR 261.
- **Uncleaned packagings:**
Recommendation
Disposal should be done in accordance with local, state and federal regulations.
Disposal must be made according to the regulations found in 40 CFR 261.
Recommended cleansing agent
Water, if necessary with cleansing agents
- **General notes:** N/A

14 Transport information:

- **DOT regulations:** Not regulated
- **Land transport ADR/RID (cross-border):**
ADR/RID class: 9 miscellaneous dangerous substances and articles.
UN Number: 3082
Packaging Group: III
Description of Goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Tetradecyltrimethylammonium oxalate solution
- **Maritime transport IMDG:** Not regulated
- **Air transport ICAO-TI and IATA-DGR:** Not regulated

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15 Regulations:

- **SARA Section 355 (extremely hazardous substances):** None known
- **SARA Section 313 (specific toxic chemical listings):** None known
- **TSCA (Toxic Substances Control Act) Inventory:** Substance not listed (exempt)
- **California Proposition 65 – Chemicals Known to Cause Cancer:** None known
California Proposition 65 – Chemicals Known to Cause Reproductive Toxicity: None known.
- **Carcinogenicity categories**
IARC (International Agency for Research on Cancer): None known
NTP (National Toxicology Program): None known
TLV (Threshold Limit Value established by ACGIH): None known
- **Product related hazard information:** Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.
Hazard Symbols:
Xi Irritant
N Dangerous for the environment
Risk Phrases:
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases:
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **National regulations:** N/A
- **Water hazard class:** Water Hazard Class 2(German regulation) (Self-assessment): hazardous for water.

16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither BD, PreAnalytiX, or any of their subsidiaries assumes any liabilities 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.

- **Department issuing MSDS:** Regulatory Affairs