

## MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Name of product:** Buffer VT, Buffer A, Buffer B, Buffer C, Buffer D, Buffer E, and RNase A

**Company:** Virongy Biosciences Inc.  
11225 Assett Loop Suite 111  
Manassas VA 20109

**Emergency phone (Chemtrec):** US and Canada: 1-800-424-9300 or 1-703-527-3887  
Outside US and Canada: 1-703-741-5970

**Recommended use:** *Research use only.*

### SECTION 2: HAZARDS IDENTIFICATION

**GHS label elements:** None

**Hazard pictograms:** None

**Signal words:** None

**Hazards statement:** None

**HMIS:**

<b>Health</b>	<b>0</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>

### SECTION 3: COMPOSITION / INFORMATION OF INGREDIENTS

The product at its given concentration is considered non-hazardous according to OSHA HCS 2012 standards. However, it is recommended that all chemicals are handled with caution and using proper safety procedures.

### SECTION 4: FIRST AID MEASURES

**Skin contact:** Wash affected area with plenty of soap and water. If irritation or rash occurs, consult a physician.

**Eye contact:** Hold eyelids open and run a gentle stream of water into the affected eye(s) for at least 15 minutes. If possible, remove contact lenses. See a physician if necessary.

**Ingestion:** Rinse mouth with water. Consult a physician if feeling unwell.

**Inhalation:** Move to an area with fresh air/adequate ventilation. If not breathing, give artificial respiration. Contact a physician or emergency assistance.

**Most important symptoms/effects, both acute and delayed:** None

**Indication of any immediate medical attention and special treatment needed:** None

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**SECTION 5: FIREFIGHTING MEASURES**

**Suitable extinguishing media:** Water, foam, carbon dioxide.

**Special hazards arising from substance or mixture:** None

**Advice for firefighters:** Standard procedure for chemical fires.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective**

**equipment and emergency procedures:** Wear personal protective equipment and use proper ventilation, suitable for a BSL-2 lab.

**Environmental precautions:** None.

**Methods and material for containment**

**and cleaning up:** Use absorbent material to clean up spills.

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling:** Use personal protective equipment. No special handling required.

**Conditions for safe storage, including any incompatibilities:** Keep reagents properly labeled and in a dry, well-ventilated area. Store RNase A and Buffer A at 4°C. All other components and buffers can be stored at room temperature.

**Specific end use(s):** For research use only.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering measures:** Handle product using appropriate laboratory safety practices.

**Eye protection:** Safety goggles/glasses.

**Respiratory protection:** Use proper ventilation. No special respiratory protection is needed.

**Hand protection:** Wear chemical resistant gloves.

**Skin/body protection:** Wear protective clothing to cover skin.

**Hygiene measures:** Handle all components using good safety and hygiene practices.

**Environmental exposure controls:** No special environmental precautions.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties:

<b>Physical state:</b>	Liquid mixture
<b>Color:</b>	No data
<b>Odor:</b>	No data
<b>Molecular weight:</b>	No data
<b>Freezing point:</b>	°C/°F No data
<b>Melting point:</b>	°C/°F No data
<b>Boiling point:</b>	°C/°F No data
<b>Flammability:</b>	No data
<b>Lower explosion limit:</b>	No data
<b>Upper explosion limit:</b>	No data
<b>Flash point:</b>	°C/°F No data
<b>Autoignition temperature:</b>	°C/°F No data
<b>Decomposition temperature:</b>	°C/°F No data
<b>pH:</b>	No data
<b>Viscosity:</b>	No data
<b>Evaporation rate:</b>	No data
<b>Solubility:</b>	No data
<b>Vapor pressure:</b>	No data
<b>Vapor density:</b>	No data
<b>Coefficient water/oil:</b>	No data

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal storage conditions.
<b>Reactivity:</b>	None known.
<b>Possible hazardous reactions:</b>	None known.
<b>Conditions to avoid:</b>	No information available.
<b>Incompatible materials:</b>	No dangerous reactions under normal use conditions.
<b>Hazardous decomposition products:</b>	None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Likely routes of exposure:</b>	Mouth, skin and eyes.
<b>Acute toxicity:</b>	Using available data, classification criteria is not met.
<b>Skin corrosion/irritation:</b>	No data.
<b>Serious eye damage/irritation:</b>	No data.
<b>Respiratory or skin sensitization:</b>	No data.
<b>Specific target organ toxicity</b> – single exposure:	Using available data, classification criteria is not met.
<b>Specific target organ toxicity</b> – repeated exposure:	Using available data, classification criteria is not met.
<b>Carcinogenicity:</b>	Using available data, classification criteria is not met.
<b>Germ cell mutagenicity:</b>	Using available data, classification criteria is not met.
<b>Reproductive toxicity:</b>	Using available data, classification criteria is not met.
<b>Aspiration hazard:</b>	Using available data, classification criteria is not met.

## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity:</b>	No data available.
<b>Bioaccumulate potential:</b>	No data available.
<b>Persistence and degradability:</b>	No data available.
<b>Mobility in soil:</b>	No data available.
<b>Other adverse effects:</b>	No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste disposal:</b>	Proper disposal of the product is the responsibility of the user. Waste disposal should follow federal, state, and local laws.
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## SECTION 14: TRANSPORT MEASURES

### U.S. DOT/IMGD/IATA Information

<b>UN number:</b>	Not regulated.
<b>Proper shipping name:</b>	Not applicable.
<b>Transport hazard class:</b>	Not applicable.
<b>Hazardous substance:</b>	Not applicable.
<b>Packing group:</b>	Not applicable.
<b>Toxic-inhalation hazard:</b>	Not applicable.
<b>Marine pollutant:</b>	Not applicable.

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>TSCA:</b>	Not regulated by TSCA.
<b>SARA 313:</b>	Not regulated by SARA 313.

## SECTION 16: OTHER INFORMATION

**Revision number:** 001  
**Revision date:** 02/22/23  
**Reason for revision:**

**References:** N/A

## ABBREVIATIONS

**Chemtrec:** Chemical Transportation Emergency Center (US)  
**OSHA:** Occupational Safety and Health Administration, US Department of Labor  
**US DOT:** US Department of Transportation  
**IMGD:** International Maritime Dangerous Goods  
**IATA:** International Air Transport Association  
**TSCA :** United States Toxic Substances Control Act Section 8(b) Inventory  
**SARA 313:** Superfund Amendments and Reauthorization Act, Section 313

### DISCLAIMER

*The above information is accurate to our best knowledge. The user should exercise independent judgment for the hazardous nature of materials based on all sources of information available. Virongy Biosciences shall not be held liable for any damage resulting from the handling or use of the above product.*