



Material Safety Data Sheet (MSDS)  
Revision Date: 11-27-2022

**Kit Name: Antibody Dilution Buffer (100ml)**  
**Catalog#: VB-6002**

**Components:**

VB-6002	Antibody Dilution Buffer (100ml)
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## VB-6002 Antibody Dilution Buffer MSDS

### 1. Identification of the Substance/Mixture and Company

**Product Name** Antibody Dilution Buffer (100ml)  
**Catalog#** VB-6002  
**Product Description** Component  
**Manufacturer/Supplier** VitroVivo Biotech, LLC. 405 E Gude Dr., Suite 214, Rockville, MD 20850  
**Tel/fax Number** Phone: 301-500-0499; Toll free: 1-800-260-9817 Fax: 844-248-6208

### 2. Hazards Identification

#### Classification of the substance or mixture

**Appearance:** clear, colorless liquid

**Caution!** May cause eye, skin, and respiratory tract irritation. This is expected to be a low hazard for usual handling.

**Target Organs:** none

#### **Potential Health Effects**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May cause respiratory of the digestive. Low hazard for usual industrial handling.

**Chronic:** No information found.

### 3. Composition/information on ingredients

**Mixtures Description:** Mixture of the substances listed below.

#### **Composition:**

<b>Component</b>	<b>CAS#</b>
Sodium Chloride	7647-14-5
Sodium phosphate dibasic	7558-79-4
Sodium phosphate monobasic dihydrate	13472-35-0
BSA	9048-46-8
Fish skin gelatin	9000-70-8
Sodium azide	26628-22-8

### 4. First Aid Measures

#### Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.

**Ingestion** Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water. Get medical aid if irritation or symptoms occur.

**Skin contact** Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.

**Eye contact** Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

#### Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically and supportively.

### 5. Firefighting Measures

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or

combustion. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

#### **Extinguishing Media**

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

**Flash Point:** Not applicable.  
**Autoignition Temperature:** Not applicable.  
**Explosion Limits, Lower:** Not available.  
**Upper:** Not available.  
**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

### **6. Accidental Release Measures**

#### **General Information**

Use proper personal protective equipment as indicated in Section 8.

#### **Spills/Leaks**

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Provide ventilation.

### **7. Handling and Storage**

#### **Handling**

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

#### **Storage**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. No special precautions indicated.

### **8. Exposure Controls/Personal Protection**

#### **Engineering Controls**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

#### **Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium Chloride	none listed	none listed	none listed
Sodium phosphate dibasic	none listed	none listed	none listed
Sodium phosphate monobasic dihydrate	none listed	none listed	none listed
BSA	none listed	none listed	none listed
Fish skin gelatin	none listed	none listed	none listed
Sodium azide	none listed	none listed	none listed

#### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### **9. Physical and Chemical Properties**

#### **Information on basic physical and chemical properties**

**Physical State:** Liquid  
**Appearance:** clear, colorless  
**Odor:** weak odor  
**pH:** 7.2  
**Vapor Pressure:** Not available.  
**Vapor Density:** >1.0  
**Evaporation Rate:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** > 100 deg C  
**Freezing/Melting Point:** > 0 deg C  
**Decomposition Temperature:** Not available.  
**Solubility:** Soluble.  
**Specific Gravity/Density:** Not available.  
**Molecular Formula:** Solution  
**Molecular Weight:** Not available.

## 10 Stability and Reactivity

**Chemical Stability:** Stable.  
**Conditions to Avoid:** Incompatible materials, excess heat.  
**Incompatibilities with Other Materials:** Strong acids, strong bases.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported

## 11. Toxicological Information

### Information on toxicological effects

<b>Toxicological effects</b>	No information available.
<b>Skin corrosion/irritation</b>	
<b>Extreme pH</b>	
<b>Serious eye damage/irritation</b>	Not determined.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity - in vitro</b>	Not determined.
<b>Genotoxicity - in vivo</b>	Not determined.
<b>Carcinogenicity</b>	Not determined.
<b>Reproductive toxicity - fertility</b>	Not determined.
<b>Specific target organ toxicity - single exposure</b>	
<b>STOT - single exposure</b>	Not determined.
<b>Specific target organ toxicity - repeated exposure</b>	
<b>STOT - repeated exposure</b>	Not determined.
<b>Aspiration hazard</b>	Not determined.
<b>General information</b>	No specific health hazards known.
<b>Epidemiology:</b>	No information found

## 12. Ecological Information

### Toxicity

**Acute toxicity - fish** Not determined.

### Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Mobility in soil

**Mobility** The product is soluble in water.

### Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No information available

### Other adverse effects

**Other adverse effects** Not determined.

## 13. Disposal Considerations

### Waste treatment methods

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## 14. Transport Information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**Road transport notes** Not classified.

**Rail transport notes** Not classified.

**Sea transport notes** Not classified.

**Air transport notes** Not classified.

**UN number** Not applicable.

**UN proper shipping name** Not applicable.

**Transport hazard class(es)** Not applicable.

**Packing group** Not applicable.

### Environmental hazards

**Environmentally hazardous substance/marine pollutant** No.

**Special precautions for user** Not applicable.

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

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**Guidance** Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

**Chemical safety assessment** No chemical safety assessment has been carried out.

## 16. Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Abbreviations and acronyms:

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**IMDG:** International Maritime Code for Dangerous Goods

**DOT:** US Department of Transportation

**IATA:** International Air Transport Association

**ACGIH:** American Conference of Governmental Industrial Hygienists

**NFPA:** National Fire Protection Association (USA)

**HMIS:** Hazardous Materials Identification System (USA)

**LC50:** Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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