

# Material Safety Data Sheet

Revision Date: 02-14-2017

Kit Name: 1-step Anti-Rat Polymer-Based IHC Kit (100 Slides) SKU#: VB-6027

**Components:** 

Componentor	
VB-6027-1	RTU normal horse serum
VB-6027-2	RTU polymeric peroxidase anti-rat secondary antibody

## VB-6027 RTU normal horse serum MSDS

1. Identification of the Substance/Mixture and Company		
Product Name	RTU normal horse serum	
Catalog#	VB-6027-1	
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		
GHS Classification		
Signal Word	None	
Hazard pictograms	None	
Health hazards	Not Hazardous	
Environmental hazards	Not Hazardous	
Hazard Statements	Not Applicable	
Precautionary Statements		
Prevention	Not Applicable	
	Not Applicable	

#### 3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First Aid Measures		
Description of first aid		
Skin contact	Rinse skin with water. Immediate medical attention is not required.	
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.	
Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.	
Notes to Physician	Treat symptomatically.	

Most important symptoms and effects, both acute and delayed Not Applicable

Not Applicable

Not Applicable

Not Applicable

Indication of any immediate medical attention and special treatment needed None.

## 5. Firefighting Measures

## Extinguishing media

Storage

Disposal Other hazards

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available.

## Special hazards arising from the substance or mixture Not known

Protective equipment and precautions for firefighters Standard procedure for chemical fires.

## 6. Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Always wear recommended Personal Protective Equipment Use personal protection equipment See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### **Reference to other sections**

See section 8 for more information.

### 7. Handling and Storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

#### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

For Laboratory Use

8. Exposure Controls/Personal Protection	
<u>Control parameters</u> Exposure Limits Engineering Measures	Contains no substances with occupational exposure limit values. Ensure adequate ventilation, especially in confined areas.
<u>Exposure controls</u> Personal Protective Equipment Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand protection	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Eye protection	Tight sealing safety goggles.
Skin and Body Protection	Wear suitable protective clothing.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

#### Environmental exposure controls

No special environmental precautions require

## 9. Physical and Chemical Properties

- Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits
- Liquid Colorless Odorless No information available 6-8 No data available No information available No information available No information available No information available Not applicable

Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

## 10 Stability and Reactivity

Reactivity	None known.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	No data available

## **11. Toxicological Information**

## Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure	
Acute toxicity	Data are conclusive but insufficient for classification.
Skin corrosion/irritation	Data are conclusive but insufficient for classification
Serious eye damage/irritation	Data are conclusive but insufficient for classification
Respiratory or skin sensitization	Data are conclusive but insufficient for classification

**Specific target organ toxicity (STOT)–singleexposure** Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT)-repeatedexposure

Data are conclusive but insufficient for classification

Carcinogenicity	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification
Aspiration hazard	Data are conclusive but insufficient for classification

#### **12. Ecological Information**

## Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil	No information available.
Persistence and degradability	No information available.
<b>Bioaccumulative potential</b>	No information available.

#### **Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### Other adverse effects

No information available

13. Disposal Considerations

## Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique.

Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

## 14. Transport Information

#### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number	Not Applicable
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	Not Applicable
Environmental hazards	Not Applicable
Special precautions for user	Not Applicable

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

15. Regulatory Information

## **US Federal Regulations**

**SARA 313** This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

## US State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

## WHMIS Hazard Class

## Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## **National Regulations - Brazil**

Not regulated

#### **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 Copyright © 2017 VitroVivo Biotech, LLC. All rights reserved. No part of these pages may be used for any purpose other than personal use. Therefore, reproduction, modification, storage in a retrieval system or retransmission, in any form or by any means, for reasons other than personal use, is strictly prohibited without prior written permission.

## VB-6027-2 RTU polymeric peroxidase anti-rat secondary antibody MSDS

1. Identification of the Substance/Mixture and Company	
Product Name Catalog# Product Description	RTU polymeric peroxidase anti-rat secondary antibody VB-6027-2 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**

This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

## GHS Label elements, including precautionary statements

Signal Word Not classified

#### Hazard statement(s) None.

Precautionary Statement(s)

None.

Supplementary Hazard Information

May produce an allergic reaction

## Hazards not otherwise classified (HNOC)

Not applicable.

3. Composition/information on ingredients

## Substances

Not applicable

## Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

4. First Aid Measures	
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide
-	open while rinsing. Get medical attention immediately if irritation persists.
Skin contact	Wash skin with soap and water.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable
	for breathing. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

## Most important symptoms and effects, both acute and delayed

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

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

Treat symptomatically.

#### Advice for emergency responders General advice

For further assistance, contact your local Poison Control Center.

	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Firefighting Measures		
Extinguishing media		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable Extinguishing Media	CAUTION: Use of water spray when fighting fire may be inefficient.	
Specific hazards arising from the cher	mical No information available.	
Explosion Data		
Sensitivity to Mechanical Impact	None.	
Sensitivity to Static Discharge	None.	
<b><u>Protective Equipment and Precaution</u></b> As in any fire, wear self-contained breat full protective gear	is for Firefighters thing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and	
	6. Accidental Release Measures	
Personal precautions, protective equip		
	Avoid contact with skin, eyes and clothing. Use personal protective equipment.	
	For personal protection see section 8.	
Other information	No information available	
sewers, basements or confined areas.	e to do so. Prevent product from entering drains. Prevent entry into waterways,	
Methods and material for containment and cleaning upMethods for containmentPrevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	
	7. Handling and Storage	
contaminated clothing before re-use. Ha	e section 8. Avoid contact with skin, eyes and clothing. Remove and wash ndle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including	any incompatibilities	
Technical measures/Storage condition Packaging material	Its Keep containers tightly closed in a dry, cool and well-ventilated place. No information available.	
Incompatible products	Strong oxidizing agents. Strong acids	
8.	Exposure Controls/Personal Protection	
	-	
	If splashes are likely to occur, wear: Tightly fitting safety goggles Wear protective gloves/clothing.	
	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA	

approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Handle in accordance with good industrial hygiene and safety practice.

#### Hygiene measures

#### 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

Physical State: Liquid
Appearance: clear
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: Not available.
Solubility: Soluble.
Specific Gravity/Density: Not available.
Molecular Formula: Solution
Molecular Weight: Not available.

### **10 Stability and Reactivity**

#### **Reactivity**

No information available.

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

Hazardous reactions Hazardous polymerization None under normal processing. None under normal processing.

#### Conditions to Avoid

Extremes of temperature and direct sunlight. Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

## **Incompatible Materials**

No information available.

## Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11. Toxicological Information** 

## Information on likely routes of exposure

Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Avoid contact with eyes. May cause slight irritation.
Avoid contact with skin.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Information on toxicological effects

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product.

information available.
information available.

### **12. Ecological Information**

#### <u>Toxicity</u> Ecology-general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment

Persistence and degradability Bioaccumulation Mobility No information available. No information available. No information available

## Other adverse effects

No information available

13. Disposal Considerations

## Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

## **Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way

## 14. Transport Information

This material is not subject to regulation as a hazardous material for shipping

## 15. Regulatory Information

## **US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

## International regulations

No additional information available

## US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

## **16. Other Information**

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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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