

## **Section 1. Product and Manufacturer Identification**

**Product Name:** Anti-PD-1 Neutralizing Antibody

**Catalog Number:** 71120

**CAS number:** Not available.

**Recommended Usage:** This product is intended for use in a research setting for the growth of cell culture.

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural applications.

**Manufacturer Information:** BPS Bioscience, Inc.  
6405 Mira Mesa Blvd., Suite 100  
San Diego, CA 92121 USA.  
Tel: 1-858-202-1401  
www.bpsbioscience.com

For a complete list of components shipped with a product, please review the product datasheet, which is available on our website at [www.bpsbioscience.com](http://www.bpsbioscience.com). A safety datasheet for each component is available upon request.

## **Section 2. Hazard(s) Identification**

### **Hazard Classification**

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

**Hazard Pictograms:** n/a

**Health Hazards:**

Respiratory sensitization	0
Skin sensitization	0
Reproductive Toxicity	0

**Physical Hazards:** Not hazardous

**Environmental Hazards:** Not hazardous

**Hazard Statement(s):** Not hazardous

**Precautionary statements**

**Prevention:** P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product

**Response:** Not Applicable

**Storage:** Not Applicable

**Disposal:** Not Applicable

**Other Hazards:**

**HMIS**

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

**Section 3. Composition and Information on Ingredients**

<b>Component</b>	<b>CAS No.</b>	<b>Common Name</b>	<b>EINECS-No</b>	<b>Classification</b>	<b>Weight-%</b>
No applicable chemicals	n/a	n/a	n/a	n/a	n/a

**This product is not intended to be used for direct administration in humans or animals.** See product datasheet for formulation details. This product consists of an aqueous solution of a Tris-HCl and NaCl-based buffer. No azide or thimerosal has been added to this product. The physical properties of this product have not been investigated thoroughly. We recommend handling all chemicals with caution.

## **Section 4. First Aid Measures**

### **Description of First Aid measures**

- Skin contact:** Rinse with plenty of water. Immediate medical attention is not required.
- Eye contact:** Rinse cautiously with water for several minutes, including under the eyelids. Remove contact lenses, if present and easy to do. Rinse for at least 15 minutes. Get medical advice/attention if you feel unwell or are concerned.
- Ingestion:** Rinse mouth with water. If you feel unwell, seek medical advice.
- Inhalation:** Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.
- Notes to Physician:** Treat symptomatically.

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

No known significant effects or critical hazards.

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

None.

## **Section 5. Fire Fighting Measures**

**Conditions of flammability** This product is not flammable.

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	No data available.
<b>Special hazards arising from the substance or mixture</b>	None known.
<b>Special protective equipment for firefighters</b>	Standard procedure for chemical fires.

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

<b>Personal precautions and protective equipment</b>	Ensure adequate ventilation, and avoid breathing vapors, mist or gas. Avoid dust/aerosol formation. Always wear recommended Personal Protective Equipment. See section 8 for more information.
<b>Emergency procedures</b>	No special emergency precautions required.
<b>Environmental precautions</b>	No special environmental precautions required.
<b>Methods and material for containment and cleaning up</b>	Soak up with inert absorbent material.
<b>Reference to other sections</b>	See section 8 for more information.

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

<b>Precautions for Safe Handling</b>	Use personal protective equipment as required. No special handling advices are necessary.
<b>Precautions for protection against explosions and fires</b>	Not applicable.
<b>Precautions for minimizing the release of the chemical into the environment</b>	No special environmental precautions are needed.

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

Keep container tightly sealed in a dry, cool and well-ventilated place.  
Recommended storage temperature: As described in technical data sheet.

**Specific end use(s)**

For research use or further manufacturing use only. Serum and blood proteins are not for direct administration into humans or animals.

**Section 8. Exposure Controls, Personal Protection**

**Control Parameters**

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (8-hour TWA)	ACGIH OEL (STEL)
No applicable chemicals	n/a	n/a	n/a	n/a

The lists that were valid during the creation of this document were used as basis.

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Exposure Controls**

**Personal Protective Equipment (PPE)**

**Respiratory protection**

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standard, such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with suitable chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal. Wash and dry hands.

**Eye protection**

Tight sealing safety goggles with side-shields conforming to NIOSH (US) or EN 166(EU).

**Body protection**

Wear suitable impervious protective clothing.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**

No special environmental precautions are needed.

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

### **Physical and chemical properties**

<b>Physical state</b>	Frozen liquid
<b>Odor</b>	No data available
<b>Odor threshold</b>	No data available
<b>pH</b>	6-8
<b>Molecular weight</b>	No data available
<b>Melting Point / melting range</b>	-10°C to 2°C
<b>Boiling point / boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Specific gravity</b>	No data available
<b>Solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Other information</b>	No data available

## **Section 10. Stability and Reactivity**

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	No data available
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	No data available
<b>Polymerization</b>	Hazardous polymerization does not occur under conditions of normal use.

## **Section 11. Toxicological Information**

### **Information on toxicological effects**

There is no evidence available indicating acute toxicity.

### **Acute toxicity**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LD50</b>	<b>Concentration / %</b>
No applicable chemicals	n/a	n/a	n/a	n/a

<b>Skin corrosion / irritation</b>	No data available
<b>Serious eye damage / irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Specific target organ toxicity (STOT) – single exposure</b>	No data available
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Aspiration hazard</b>	No data available

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<b>Principle Routes of Exposure</b>	Respiratory organs, mouth, skin, and eyes.
<b>Symptoms of exposure</b>	No data available
<b>Additional information</b>	No data available

## **Section 12. Ecological Information**

<b>Ecotoxicity</b>	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
<b>Persistence and degradability</b>	No information available
<b>Bioaccumulative potential</b>	No information available
<b>Mobility in soil</b>	No information available
<b>Results of PBT and vPvB assessment</b>	No information available
<b>Other adverse effects</b>	Do not dispose into surface water or sanitary sewer system.

## **Section 13. Disposal Considerations**

### **Disposal of Product and Containers**

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

## **Section 14. Transport Information**

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

Not regulated in the meaning of transport regulation

<b>UN Number</b>	Not Regulated
<b>UN proper shipping name</b>	Not Applicable
<b>Transport hazard class(es)</b>	Not Applicable



**Packing group** 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

## **Section 15. Regulatory Information**

<b>Chemical Name</b>	<b>US TSCA</b>	<b>TSCA Inventory notification - Active/Inactive</b>	<b>TSCA - EPA Regulatory Flags</b>
No applicable chemicals	n/a	n/a	n/a

**TSCA 12(b) - Notices of Export**  
Not applicable

### **U.S. Federal Regulations**

**SARA 302 Components**  
Not applicable

**SARA 313 Components**  
Not applicable

**SARA 311/312 Hazards**  
Not applicable

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)**  
Product does not contain HAPs.

**CWA (Clean Water Act)**  
Not applicable

**OSHA - Occupational Safety and Health Administration**  
Not applicable

**CERCLA**  
Not Applicable

**U.S. Department of Transportation**  
Reportable Quantity (RQ): Not applicable  
DOT Marine Pollutant: Not applicable

DOT Severe Marine Pollutant: Not applicable

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**U.S. State Regulations**

**California Prop 65**

Product does not contain chemicals listed under Proposition 65.

**US State Right To Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
No applicable chemicals	n/a	n/a	n/a	n/a	n/a

**International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Chemical Name	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
No applicable chemicals	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

**Mexico - Grade**

Not applicable.

**WHMIS Hazard Class**

Not Applicable.

## **Section 16. Other Information**

**Revision date:** December 21, 2021

**Contact information:**

**Phone:** 1-858-202-1401

**Email:** [support@bpsbioscience.com](mailto:support@bpsbioscience.com)

This product is for research use only and is not intended for human or animal diagnostic or therapeutic uses. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed. All materials and mixtures may present unknown hazards and should be used with caution.

BPS Bioscience provides this information in good faith and is based on our present knowledge. This information shall not be taken as being all inclusive and is to be used only as a guide. This SDS does not constitute a warranty of any kind.

**End of Safety Data Sheet**