



Jackson ImmunoResearch Laboratories, Inc.
872 W. Baltimore Pike
West Grove, PA 19390
800-367-5296, 610-869-4024, FAX:610-869-0171
cuserv@jacksonimmuno.com
www.jacksonimmuno.com
Product Code: 128-035-230

GHS SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

1.1 GHS Product Identifier:

Product Name: Peroxidase-conjugated AffiniPure Goat Anti-Alpaca IgG, VHH domain (minimal cross-reaction to Bovine, Human, Mouse, Rabbit, and Rat Serum Proteins)

Other means of identification:

Product code #: 128-035-230

1.2 Recommended use of the mixture and restrictions on use:

For *in vitro* research use only. Not for diagnostic or therapeutic use. This is not a medical device. Contact supplier for specific applications.

1.3 Supplier's details:

Manufacturer

Jackson ImmunoResearch Laboratories, Inc.
872 West Baltimore Pike
West Grove, PA 19390
T: 800-367-5296, 610-869-4024
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European Contact

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Cambridge House
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Ely, Cambridgeshire CB7 4EX, UK
T: +44 (0) 1635 664675
F: +44 (0) 1638 668462
info@jacksonimmuno.com; help@jacksonimmuno.com
www.jacksonimmuno.com

E-mail address of the person responsible for this SDS: tech@jacksonimmuno.com

1.4 Emergency phone number:

610-869-4024 (USA)

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification: GHS UNITED STATES

Mixture, not a hazardous substance

2.2 GHS USA label elements, including precautionary statements:

Not a hazardous substance

GHS Symbol: none required

GHS Signal word: None

GHS Hazard statement: Not a hazardous substance



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GHS Precautionary statement: None

2.3 Adverse Human Health: None

Effects and Symptoms: May be harmful by inhalation, ingestion, or skin adsorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture: USA GHS, non-hazardous mixture

Chemical Name	RTECS#	CAS#	EC#	% (w/w)
Sodium Phosphate	WC4500000	7558-79-4	231-448-7	2.23
Peroxidase-conjugated AffiniPure Goat Anti-Alpaca IgG, VHH domain (minimal cross-reaction to Bovine, Human, Mouse, Rabbit, and Rat Serum Proteins)	N/A	N/A	N/A	2.83
Sodium Chloride	V24725000	7647-14-5	231-598-3	23.26
Bovine Serum Albumin	N/A	N/A	N/A	23.89
Non-Hazardous, Proprietary Ingredient	N/A	N/A	N/A	47.79

N/A means not applicable or proprietary information. The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29CFR1910.1200].

Due to rounding, percentages of individual components may not add up to 100%.

SECTION 4. FIRST-AID MEASURES

4.1 Description of First Aid Measures:

Inhalation:

Remove person to fresh air. If inflammation occurs, get medical attention.

Skin contact:

Basic hygiene should prevent any problems. If contact with this product leads to reddening, inflammation, or irritation, flush exposed area with running water and get medical attention.

Eye Contact:

If this product enters the eyes, flush the eyes with gently running water for at least 15 minutes. If inflammation occurs, get medical attention.

Ingestion:

Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. No special precautions are taken to remove or detect the presence of endotoxin or pyrogens. If fever or adverse effects are experienced, get medical attention.



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SECTION 5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

5.2 Unsuitable extinguishing media: None are known.

Conditions of flammability: Not flammable or combustible.

Specific hazards in case of fire: None are known.

5.3 Special protective equipment and precautions for fire fighters: For fires in enclosed areas, wear a self-contained breathing apparatus. Do not inhale combustion gases.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. For emergency responders, wear respiratory protection.

6.2 Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

6.3 Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Alternatively, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material, e.g. sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via licensed waste disposal contractor.

SECTION 7. HANDLING AND STORAGE

The information in this section contains generic advice and guidelines. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling:

Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities:

Store at 2-8°C. When ready to use, rehydrate with dH₂O and centrifuge if not clear. Product is stable for about 6 weeks at 2-8°C as an undiluted liquid. Prepare working dilution fresh each day. For extended storage after rehydration, aliquot and freeze at -70°C or below. Avoid repeated freezing and thawing. Alternatively, add an equal volume of glycerol (ACS grade or better) for a final glycerol concentration of 50%, and store at -20°C as a liquid. Note: adding glycerol reduces the stated protein concentration and dilution range by one-half. Store in original container away from incompatible materials and from



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food and drink. Do not store in an unlabeled container. Use appropriate containment to avoid environmental contamination. Consult Product Specification sheets for additional storage information.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

This product or any of its ingredients have no listed OSHA PEL, NIOSH REL, or ACGIH Threshold Limit Values (TLV).

8.2.1 Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure below any recommended or statutory limits.

8.2.2 Individual protection measures, such as personal Protective Equipment:

Respiratory protection: Use a properly-fitted, air-purifying, or air-fed respirator complying with an approved standard if a risk assessment indicates this is a necessity. Respirator selection must be on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure the eyewash station and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts.

Skin and body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hand protection: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin and body protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Light brown solid

Odor: Odorless, as water

Odor threshold: Not available

pH: 7.6 when rehydrated with indicated volume of H₂O

Melting point/freezing point: Data is not available



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Initial boiling point and boiling range: Data is not available
Flash point: Data is not available
Evaporation rate: Data is not available
Flammability: Data is not available
Burning time: Data is not available
Burning rate: Data is not available
Upper/lower flammability or explosive limits: Data is not available
Vapor pressure: Data is not available
Vapor density: Data is not available
Relative density: Data is not available
Solubility(ies): Soluble in warm and cold water
Partition coefficient: n-octanol/water
Auto-ignition temperature: Data is not available
Decomposition temperature: Data is not available
Viscosity: Data is not available
Explosive properties: Data is not available
Oxidizing properties: Data is not available

9.2 Other information: No additional information

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability: The product is chemically stable.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: No specific data.

10.5 Incompatible materials: No specific data.

10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products will not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: RTECS#: V24725000; CAS# 7647-14-5; EC# 231-598-3

Acute toxicity:

Sodium Chloride: Oral Rat, LD50, 3,000 mg/kg

Sodium Phosphate: Oral Rat, LD50, 17,000 mg/kg

Antibody/Serum Protein: Not established

Skin Corrosion/Irritation: Conclusion/Summary: Not available

Serious Eye Damage/Irritation: No known significant effects or critical hazards.

Respiratory or skin irritation: No known significant effects or critical hazards.

Germ Cell Mutagenicity: Conclusion/Summary: Not available

Carcinogenicity:

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by IARC.



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NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Conclusion/Summary: Not available.

STOT - single exposure: No data available.

STOT - repeated exposure: No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation.

Potential acute health effects:

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical, chemical, and toxicological characteristics

Inhalation: No specific data

Ingestion: No specific data

Skin contact: No specific data

Eye Contact: No specific data

Delayed, immediate, and chronic effects from short-and long-term exposure

Short-term exposure: Not available

Potential immediate effects: Not available

Potential delayed effects: Not available

Long-term effects: Not available

Potential immediate effects: Not available

Potential delayed effects: Not available

Potential chronic health effects:

Conclusion/Summary: Not available

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other Information: Not available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Avoid release into environment. Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and degradability

Conclusion/Summary: Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

Soil/water partition coefficient: Not available

Mobility: Not available

12.5 Results of PBT and vPvB assessment:



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PBT: Not applicable
vPvB: Not applicable

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Product: Dispose of contents/containers in accordance with local/regional/national/international regulations. The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Uncontaminated waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

Contaminated packaging: The generation of waste should be avoided or minimized whenever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

SECTION 14. TRANSPORTATION INFORMATION

14.1

	ADR/RID	ADN/ADNR	IMDG	IATA
UN Number	Not regulated for transport	Not regulated for transport	Not regulated for transport	Not regulated for transport
UN proper shipping name	Not regulated for transport	Not regulated for transport	-	-
Transport hazard class(es)	Not regulated for transport	Not regulated for transport	-	-
Packing group	-	-	-	-
Environmental hazards	No	No	No	No
Special precaution for user	Not regulated for transport	Not regulated for transport	Not regulated for transport	Not regulated for transport

14.2 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

SECTION 15. REGULATORY INFORMATION

15.3 National regulations: Data not available



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United States of America GHS

15.4 SARA Reporting Requirements: This product is not subject to Section 302, 304, and 313 reporting requirements under the Superfund Amendment and Reauthorization Act.

Chemical SARA 302, SARA 304, and SARA 313

SARA Threshold Planning Quantity: N/A

TSCA Inventory Status: N/A

CERCLA Reporting Quantity (RQ): N/A

Other Federal Regulations: N/A

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling, and Packaging [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP specific Hazard Statement

PNEC - Predicted No Effect Concentration

RRN = REACH Registration Number

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]: Not classified

Literature used in preparation of this GHS/SDS: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Fourth Revised Edition, United Nations, New York and Geneva, 2011

Full text abbreviation H Statements: Not applicable

Full text of classifications [CLP/GHS]: Not applicable

Full text of abbreviated R phrases: Not applicable

GHS/SDS Preparation date: 11/16/2020

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Version: Version No:

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