Peroxidase-conjugated AffiniPure[™] F(ab')₂ Fragment Mouse Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine,

Horse, Mouse, Goat, and Rabbit Serum Proteins)



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 23/04/2024 Version: 3.1 SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Form	: Mixture
Product Name	: Peroxidase-conjugated AffiniPure™ F(ab') ₂ Fragment Mouse Anti-Rat IgG (H+L)
	(minimal cross-reaction to Human, Bovine, Horse, Mouse, Goat, and Rabbit Serum
	Proteins)
Product Code	: 212-036-168
1.2. Relevant identified uses	of the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: For in vitro research use only. Not for diagnostic or therapeutic use. This is not a
	medical device. Contact supplier for specific applications.
1.2.2. Uses advised against	
No additional information availa	ble
1.3. Details of the supplier	of the safety data sheet
Manufacturer	European Contact
Jackson ImmunoResearch Labora	atories, Inc. Jackson ImmunoResearch Europe LTD
872 West Baltimore Pike	Cambridge House
West Grove, PA 19390	St Thomas' Place
T: 800-367-5296, 610-869-4024	Ely, Cambridgeshire CB7 4EX, UK
F: 610-869-0171	T: +44 (0) 1638 782616

F: +44 (0) 1353 664675

info@jacksonimmuno.com help@jacksonimmuno.com

Email address for the person responsible for this SDS: tech@jacksonimmuno.com

1.4. Emergency telephone number

tech@jacksonimmuno.com

www.jacksonimmuno.com

Emergency number : +1-610-869-4024 (USA)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

2.3. Other hazards

Other hazards not contributing to the : Exposure may aggravate pre-existing eye, skin, or respiratory conditions. classification

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixture

Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Sodium phosphate dibasic	(CAS-No.) 7558-79-4 (EC-No.) 231-448-7	2.23	Not classified
Peroxidase-conjugated AffiniPure™ F(ab') ₂ Fragment Mouse Anti-Rat IgG	(CAS-No.) Not assigned	2.88	Not classified
(H+L) (minimal cross-reaction to Human, Bovine, Horse, Mouse, Goat, and Rabbit Serum Proteins)			
Sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	23.24	Not classified
Albumins, blood serum	(CAS-No.) 9048-46-8 (EC-No.) 232-936-2	23.88	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

Hi Description of mist and measure	5
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Prolonged exposure may cause irritation.
Symptoms/effects after skin contact	: Prolonged exposure may cause skin irritation.
Symptoms/effects after eye contact	: May cause slight irritation to eyes.
Symptoms/effects after ingestion	: Ingestion may cause adverse effects.
Chronic symptoms	: None expected under normal conditions of use.
4.3. Indication of any immediate me	edical attention and special treatment needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, fog, carbon dioxide (CO ₂), alcohol-resistant foam, or dry chemical.
	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2. Special hazards arising from the	ne substance or mixture
Fire hazard	: Product is not flammable.
Explosion hazard	: Product is not explosive.

Peroxidase-conjugated AffiniPure™ F(ab')₂ Fragment Mouse

Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, Mouse, Goat, and Rabbit Serum Proteins)



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reactivity	: Hazardous reactions will not occur under normal conditions.
Hazardous decomposition products in	: Phosphorous oxides. Sodium oxides. Hydrogen chloride gas.
case of fire	
5.3. Advice for firefighters	
Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	se measures
6.1. Personal precautions, protect	tive equipment and emergency procedures
General measures	: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).
6.1.1. For non-emergency personnel	
Protective equipment	: Use appropriate personal protective equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.
6.2. Environmental precautions	
	: Prevent entry to sewers and public waters.
6.3. Methods and material for cor	itainment and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	 Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.
6.4. Reference to other sections	

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage Precautions for safe handling 7.1. : Wash hands and other exposed areas with mild soap and water before eating, Precautions for safe handling drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Conditions for safe storage, including any incompatibilities 7.2. Technical measures : Comply with applicable regulations. : Keep container closed when not in use. Store at 2-8°C (35°F - 46°F). Keep/Store Storage conditions away from extremely high temperatures and incompatible materials. Incompatible materials : Strong acids, strong bases, strong oxidizers. Specific end use(s) 7.3.

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

Peroxidase-conjugated AffiniPure[™] F(ab')₂ Fragment Mouse

Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, Mouse, Goat, and Rabbit Serum Proteins)

ImmunoResearch lackson ABORATORIES, INC.

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Sodium chloride (7647-14-5)		
Latvia	OEL TWA (mg/m³)	5 mg/m ³
Lithuania	IPRV (mg/m³)	5 mg/m ³

8.2. **Exposure controls**

- Appropriate engineering controls
- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. : Gloves. Protective clothing. Protective goggles.
- Personal protective equipment



- Materials for protective clothing Hand protection Eye and Face Protection Skin and body protection Respiratory protection
- : Chemically resistant materials and fabrics.

: When using, do not eat, drink or smoke.

- : Wear protective gloves.
- : Chemical safety goggles.
- : Wear suitable protective clothing.
- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information

SECTION 9: Physical and chemical pro	pe	erties
9.1. Information on basic physical and chemic	cal	properties
Physical state	:	Solid
Colour	:	Light brown solid
Odour	:	Odourless, as water
Odour threshold	:	No data available
рН	:	7.6, when rehydrated with indicated volume of H_2O
Evaporation rate	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temerature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Water
Partition coefficent: n-octanol/water	:	No data available

Viscosity

:

No data available

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Explosive properties Oxidising properties Explosive limits

- : No data available
- : No data available
- : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Extremely high temperatures, and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce: Phosphorus oxides. Sodium oxides. Hydrogen chloride gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Sodium phosphate dibasic (7558-79-4)		
LD50 oral rat	17 g/kg	
LD50 dermal rat	> 5000 mg/kg (50% solution)	
Sodium chloride (7647-14-5)		
LD50 oral rat	3550 mg/kg (Species: Wistar)	
LD50 dermal rabbit	> 10000 mg/kg (Species: New Zealand White)	
LC50 inhalation rat (mg/l)	> 42 g/m³ (Exposure time: 1 h)	
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure	 Not classified 	
Aspiration hazard Symptoms/Injuries After Inhalation Symptoms/Injuries After Skin Contact Symptoms/Injuries After Eye Contact Symptoms/Injuries After Ingestion	 Not classified Prolonged exposure may cause irritation. Prolonged exposure may cause skin irritation. May cause slight irritation to eyes. Ingestion may cause adverse effects. 	

Peroxidase-conjugated AffiniPure™ F(ab')₂ Fragment Mouse

Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine,

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Chronic Symptoms

: None expected under normal conditions of use.

: Based on available data, the classification criteria are not met.

Potential adverse human health effects and symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: Not classified.

Sodium chloride (7647-14-5)	
LC50 fish 1	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	340,7 (340,7 - 469,2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC chronic fish	252 mg/l (Species: Pimephales promelas)

12.2. Persistence and degradability

Peroxidase-conjugated AffiniPure™ F	(ab') ₂ Fragment Mouse Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse,	
Mouse, Goat, and Rabbit Serum Prote	eins)	
Persistence and degradability	Not established.	
2.3. Bioaccumulative potential		
Peroxidase-conjugated AffiniPure™ F	(ab') ₂ Fragment Mouse Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse,	
Mouse, Goat, and Rabbit Serum Prote	eins)	
Bioaccumulative potential Not established.		
Sodium chloride (7647-14-5)		
BCF fish 1	(no bioaccumulation)	
	I	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information

recommendations

: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - waste materials

Product/Packaging disposal

: Avoid release to the environment.

SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID

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14.1. UI	N number				
Not regulat	ted for transpo	ort			
14.2. UI	N proper shi	oping name			
Not applica	able	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)					
Not applica	able	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Pa	acking group				
Not applica	able	Not applicable	Not applicable	Not applicable	Not applicable
14.5. En	nvironmental	hazards			
Dangerous	for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environme	nt : No	environment : No	environment : No	environment : No	environment : No
		Marine pollutant : No			

14.6. Special precautions for user

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Notapplicable

SECTION 15: Regulatory information

15.1.Safety, health and environmental regulations/legislation specific for the substance or mixture15.1.1.EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Sodium phosphate dibasic (7558-79-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Sodium chloride (7647-14-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Albumins, blood serum (9048-46-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

 No chemical safety assessment has been carried out

 SECTION 16: Other information

 Date of Preparation or Latest Revision
 : 23/04/2024

 Data sources
 : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications

according to GHS or their subsequent adoption of GHS.

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Other information

: According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Indication of Changes No additional information available

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists ADN - European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road ATE - Acute Toxicity Estimate **BCF** - Bioconcentration Factor BEI - Biological Exposure Indices (BEI) BOD - Biochemical Oxygen Demand CAS No. - Chemical Abstracts Service Number CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008 COD - Chemical Oxygen Demand EC – European Community EC50 - Median Effective Concentration EEC - European Economic Community EINECS - European Inventory of Existing Commercial Chemical Substances EmS-No. (Fire) - IMDG Emergency Schedule Fire EmS-No. (Spillage) - IMDG Emergency Schedule Spillage EU – European Union ErC50 - EC50 in Terms of Reduction Growth Rate GHS-Globally Harmonized System of Classification and Labeling of Chemicals IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC Code - International Bulk Chemical Code IMDG - International Maritime Dangerous Goods IPRV - Ilgalaikio Poveikio Ribinis Dydis IOELV – Indicative Occupational Exposure Limit Value LC50 - Median Lethal Concentration LD50 - Median Lethal Dose LOAEL - Lowest Observed Adverse Effect Level LOEC - Lowest-Observed-Effect Concentration Log Koc - Soil Organic Carbon-water Partitioning Coefficient Log Kow - Octanol/water Partition Coefficient Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water MAK – Maximum Workplace Concentration/Maximum Permissible Concentration MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyzsze Dopuszczalne Stezenie NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis NTP - National Toxicology Program **OEL - Occupational Exposure Limits** PBT - Persistent, Bioaccumulative and Toxic PEL - Permissible Exposure Limit pH-Potential Hydrogen REACH - Registration, Evaluation, Authorisation, and Restriction of Chemicals RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail SADT - Self Accelerating Decomposition Temperature SDS - Safety Data Sheet STEL - Short Term Exposure Limit STOT - Specific Target Organ Toxicity TA-Luft - Technische Anleitung zur Reinhaltung der Luft TEL TRK – Technical Guidance Concentrations ThOD - Theoretical Oxygen Demand TIM - Median Tolerance Limit TLV - Threshold Limit Value TPRD - Trumpalaikio Poveikio Ribinis Dydis TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern TRGS 552 - Technische Regeln für Gefahrstoffe - N-Nitrosamine TRGS 900 - Technische Regel für Gefahrstoffe 900 -Arbeitsplatzgrenzwerte TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte TSCA - Toxic Substances Control Act TWA - Time Weighted Average VOC - Volatile Organic Compounds VLA-EC - Valor Límite Ambiental Exposición de Corta Duración VLA-ED - Valor Límite Ambiental Exposición Diaria VLE-Valeur Limite D'exposition VME-Valeur Limite De Moyenne Exposition vPvB - Very Persistent and Very Bioaccumulative WEL-Workplace Exposure Limit WGK - Wassergefährdungsklasse

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

EU GHS SDS