#### Peroxidase-conjugated AffiniPure<sup>™</sup> F(ab')<sub>2</sub> Fragment Goat ImmunoResearch lackson ABORATORIES, INC. Anti-Rabbit IgG (H+L) (minimal cross-reaction to Human, Mouse, and Rat Serum Proteins) Safety Data Sheet According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 19/04/2024 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<sup>™</sup> F(ab')<sub>2</sub> Fragment Goat Anti-Rabbit IgG (H+L) (minimal cross-reaction to Human, Mouse, and Rat Serum Proteins)

: 111-036-144

## 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.

help@jacksonimmuno.com

#### 1.2.2. Uses advised against

Product Code

No additional information available

#### **1.3.** Details of the supplier of the safety data sheet

| Manufacturer                              | European Contact                  |
|---|-----------------------------------|
| Jackson ImmunoResearch Laboratories, 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            |
| tech@jacksonimmuno.com                    | F: +44 (0) 1353 664675            |
| www.jacksonimmuno.com                     | info@jacksonimmuno.com            |

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

## 1.4. Emergency telephone number

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<br>(EC-No.) 231-448-7 | 2.23  | Not classified  |
| Peroxidase-conjugated AffiniPure™<br>F(ab') <sub>2</sub> Fragment Goat Anti-Rabbit IgG | (CAS-No.) Not assigned                    | 2.88  | Not classified  |
| (H+L) (minimal cross-reaction to<br>Human, Mouse, and Rat Serum<br>Proteins)           |   |       |   |
| Sodium chloride  | (CAS-No.) 7647-14-5<br>(EC-No.) 231-598-3 | 23.24 | Not classified  |
| Albumins, blood serum  | (CAS-No.) 9048-46-8<br>(EC-No.) 232-936-2 | 23.88 | Not classified  |

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

| 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      | l 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 m    | 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 <sub>2</sub> ), 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 t | he substance or mixture   |
| Fire hazard                         | : Product is not flammable.   |
| Explosion hazard                    | : Product is not explosive.   |



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| Reactivity                          | : Hazardous reactions will not occur under normal conditions.  |
|-------------------------------------|--|
| Hazardous decomposition products in |  |
| 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 rele          | ase measures   |
|                                     | ective 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<br>of dangerous goods, protect oneself and the public, secure the area, and call for<br>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 c     | ontainment 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             | <ul> <li>Clean up spills immediately and dispose of waste safely. Transfer spilled<br/>material to a suitable container for disposal. Contact competent authorities after<br/>a spill.</li> </ul>  |
| 6.4. Reference to other sections    | 5  |
|                                     |  |

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. Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, 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. Storage conditions : Keep container closed when not in use. Store at 2-8°C (35°F - 46°F). Keep/Store 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<sup>™</sup> F(ab')<sub>2</sub> Fragment Goat

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



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# SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

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

#### 8.2. **Exposure 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 properties |  |  |
|---|--|--|
| 9.1. Information on basic physical and o    | chemical 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 <sub>2</sub> O |  |
| 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

# Peroxidase-conjugated AffiniPure™ F(ab')<sub>2</sub> Fragment Goat

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



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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/m <sup>3</sup> (Exposure time: 1 h)       |  |
| Skin corrosion/irritation            | : Not classified                                |  |
| Serious eye damage/irritation        | : Not classified                                |  |
| Respiratory or skin sensitisation    | : Not classified                                |  |
| Germ cell mutagenicity               | : Not classified                                |  |
| Carcinogenicity                      | : Not classified                                |  |
| Reproductive toxicity                | : Not classified                                |  |
| STOT-single exposure                 | : Not classified                                |  |
| STOT-repeated exposure               | : Not classified                                |  |
| Aspiration hazard                    | : Not classified                                |  |
| Symptoms/Injuries After Inhalation   | : Prolonged exposure may cause irritation.      |  |
| Symptoms/Injuries After Skin Contact | : Prolonged exposure may cause skin irritation. |  |
| Symptoms/Injuries After Eye Contact  | : May cause slight irritation to eyes.          |  |
| Symptoms/Injuries After Ingestion    | : Ingestion may cause adverse effects.          |  |



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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<br>[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') <sub>2</sub> Fragment Goat Anti-Rabbit IgG (H+L) (minimal cross-reaction to Human, Mouse, and |                  |
|--|------------------|
| Rat Serum Proteins)  |                  |
| Persistence and degradability  | Not established. |

#### 12.3. Bioaccumulative potential

Peroxidase-conjugated AffiniPure™ F(ab')<sub>2</sub> Fragment Goat Anti-Rabbit IgG (H+L) (minimal cross-reaction to Human, Mouse, and Rat Serum Proteins)

| Bioaccumulative potential   | Not established.     |
|-----------------------------|----------------------|
| Sodium chloride (7647-14-5) |                      |
| BCF fish 1                  | (no bioaccumulation) |

#### 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 |
|-----|------|------|-----|-----|
|     |      |      |     |     |

# Peroxidase-conjugated AffiniPure™ F(ab')<sub>2</sub> Fragment Goat



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

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| 14.1.                            | UN number        |                       |                   |                   |                   |
|----------------------------------|------------------|-----------------------|-------------------|-------------------|-------------------|
| Not regu                         | lated for transp | port                  |                   |                   |                   |
| 14.2.                            | UN proper sh     | ipping name           |                   |                   |                   |
| Not appl                         | icable           | Not applicable        | Not applicable    | Not applicable    | Not applicable    |
| 14.3. Transport hazard class(es) |                  |                       |                   |                   |                   |
| Not appl                         | icable           | Not applicable        | Not applicable    | Not applicable    | Not applicable    |
| 14.4.                            | Packing group    | 0                     |                   |                   |                   |
| Not appl                         | icable           | Not applicable        | Not applicable    | Not applicable    | Not applicable    |
| 14.5.                            | Environment      | al hazards            |                   |                   |                   |
| Dangero                          | us for the       | Dangerous for the     | Dangerous for the | Dangerous for the | Dangerous for the |
| environr                         | ment : 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<br>Data sources | <ul> <li>19/04/2024</li> <li>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.</li> </ul> |  |  |  |



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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 NDS - Najwyzsze Dopuszczalne Stezenie 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

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

MARPOL - International Convention for the Prevention of Pollution EU GHS SDS

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.