Anti-Human IgG (H+L)

Safety Data Sheet

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



Version: 3.1

Date of issue: 17/04/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **Product identifier Product Form** : Mixture

Product Name

Product Code

: Peroxidase-conjugated AffiniPure[™] F(ab')₂ Fragment Goat Anti-Human IgG (H+L)

: 109-036-003

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 available

Details of the supplier of the safety data sheet 1.3.

| 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 |
| | help@jacksonimmuno.com |

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

1.4. **Emergency telephone number**

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

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

Substances 3.1.

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification According to Regulation (EC) No. |
|------|--------------------|---|---|
| | | | |

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| | | 1 | 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 Goat Anti-Human gG (H+L) | (CAS-No.) Not assigned | 2.88 | Not classified | |
| Sodium chloride | (CAS-No.) 7647-14-5 | 23.24 | Not classified | |
| | (EC-No.) 231-598-3 | 25.24 | | |
| Albumins, blood serum | (CAS-No.) 9048-46-8 (EC-No.) 232-936-2 | 23.88 | Not classified | |
| SECTION 4: First aid meas | | | | |
| | | | | |
| I.1. Description of first aid measures general | | | to an unconscious person. If you feel unwell, seek el where possible). | |
| First-aid measures after inhalation | : When symptoms o | ccur: go inte | o open air and ventilate suspected area. Obtain difficulty persists. | |
| First-aid measures after skin contact | : Remove contamina | ted clothin | g. Drench affected area with water for at least 5 ntion 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 | | |
| First-aid measures after ingestion | | | omiting. Obtain medical attention. | |
| .2. Most important symptoms | | | - | |
| Symptoms/effects | | - | ificant hazard under anticipated conditions of | |
| Symptoms/effects after inhalation | : Prolonged exposur | e may caus | e irritation. | |
| Symptoms/effects after skin contact | : Prolonged exposur | e may caus | e skin irritation. | |
| Symptoms/effects after eye contact | : May cause slight i | rritation to | eyes. | |
| Symptoms/effects after ingestion | : Ingestion may cau | se adverse e | effects. | |
| Chronic symptoms | : None expected und | ler normal o | conditions of use. | |
| I.3. Indication of any immedia | te medical attention and | d special tı | reatment needed | |
| f exposed or concerned, get medical a | dvice and attention. If med | ical advice | is needed, have product container or label at hand. | |
| SECTION 5: Firefighting m | easures | | | |
| 5.1. Extinguishing media | | | | |
| Suitable extinguishing media | : Water spray, fog, c | arbon diox | ide (CO ₂), alcohol-resistant foam, or dry chemical. | |
| | | | opriate for surrounding fire. | |
| Unsuitable extinguishing media | | • • | am. Use of heavy stream of water may spread fire. | |
| .2. Special hazards arising from | - | | , , | |
| Fire hazard | : Product is not flan | | | |
| Explosion hazard | : Product is not expl | | | |
| Reactivity | - | | occur under normal conditions. | |
| Hazardous decomposition products i case of fire | | | oxides. Hydrogen chloride gas. | |
| 5.3. Advice for firefighters | | | | |
| Precautionary measures fire | : Exercise caution w | hen fighting | gany chemical fire. | |
| | | 5 (| | |

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| 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 measures

| 6.1. Personal precautions, protect | ive 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 con | tainment 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

| 7.1. Precautions for safe handling | |
|--------------------------------------|---|
| 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. |
| 7.2. Conditions for safe storage, in | cluding any incompatibilities |
| 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. |
| 7.3. Specific end use(s) | |

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

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

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Appropriate engineering controls

Personal protective equipment

potential exposure. Ensure adequate ventilation, especially in confined areas.Ensure all national/local regulations are observed.: Gloves. Protective clothing. Protective goggles.

: Suitable eye/body wash equipment should be available in the vicinity of any

Materials for protective clothing Hand protection Eye and Face Protection Skin and body protection Respiratory protection

- : Chemically resistant materials and fabrics.
- : 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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| 9.1. Information on pasic physical and chemic | JU, | 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 |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | 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.

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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 ³ (Exposure time: 1 h) | |
| Skin corrosion/irritation | : Not classified | |
| Serious eye damage/irritation | : Not classified | |
| Respiratory or skin sensitisation | : Not classified | |

| Respiratory of 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 |

: Not classified

: Prolonged exposure may cause irritation.

: May cause slight irritation to eyes.

: Ingestion may cause adverse effects.

: Prolonged exposure may cause skin irritation.

Aspiration hazard Symptoms/Injuries After Inhalation Symptoms/Injuries After Skin Contact

- Symptoms/Injuries After Eye Contact
- Symptoms/Injuries After Ingestion

Chronic Symptoms

Potential adverse human health effects and

: None expected under normal conditions of use. effects and : Based on available data, the classification criteria are not met.

symptoms

SECTION 12: Ecological information

12.1. Toxicity Ecology - general

: Not classified.

Sodium chloride (7647-14-5)



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| 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

| Persistence and degradability Not established. | | | |
|---|----------------------|--|--|
| 12.3. Bioaccumulative potential Peroxidase-conjugated AffiniPure™ F(ab')₂ Fragment Goat Anti-Human IgG (H+L) | | | |
| Bioaccumulative potential Not established. | | | |
| Sodium chloride (7647-14-5) | | | |
| BCF fish 1 | (no bioaccumulation) | | |

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

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

Ecology - waste materials :

: 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 |
|---------|----------------------------|-------------------|-------------------|-------------------|-------------------|
| 14.1. | UN number | | | | |
| Not reg | gulated for transp | ort | | | |
| 14.2. | 2. UN proper shipping name | | | | |
| Not ap | plicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. | Transport haz | ard class(es) | | | |
| Not ap | plicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. | Packing group |) | | | |
| Not ap | plicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. | Environmenta | al hazards | | | |
| Danger | rous for the | Dangerous for the | Dangerous for the | Dangerous for the | Dangerous for the |
| | | | | | |

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| | environment : No Marine pollutant : No | environment : No | environment : No | environment : No |
|-----------------------|---|------------------|------------------|------------------|
| 14.6. Special precaut | | | | |

No additional information available

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. **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)

National regulations 15.1.2.

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 | : 17/04/2024 | | | |
| 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. | | | |
| 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 | NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe |
| Dangerous Goods by Inland Waterways | NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe |
| ADR - European Agreement Concerning the International Carriage of | NOAEL - No-Observed Adverse Effect Level |
| Dangerous Goods by Road | NOEC - No-Observed Effect Concentration |
| ATE - Acute Toxicity Estimate | NRD - Nevirsytinas Ribinis Dydis |
| BCF - Bioconcentration Factor | NTP – National Toxicology Program |
| BEI - Biological Exposure Indices (BEI) | OEL - Occupational Exposure Limits |
| BOD – Biochemical Oxygen Demand | PBT - Persistent, Bioaccumulative and Toxic |
| CAS No Chemical Abstracts Service Number | PEL - Permissible Exposure Limit |
| CLP – Classification, Labeling and Packaging Regulation (EC) No | pH – Potential Hydrogen |

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| 1272/2008 | REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals |
|--|--|
| COD – Chemical Oxygen Demand EC – European Community | RID – Regulations Concerning the International Carriage of Dangerous |
| EC50 - Median Effective Concentration | |
| | Goods by Rail |
| EEC – European Economic Community | SADT - Self Accelerating Decomposition Temperature |
| EINECS – European Inventory of Existing Commercial Chemical | SDS - Safety Data Sheet |
| Substances | STEL - Short Term Exposure Limit |
| EmS-No. (Fire) - IMDG Emergency Schedule Fire | STOT - Specific Target Organ Toxicity |
| EmS-No. (Spillage) - IMDG Emergency Schedule Spillage | TA-Luft - Technische Anleitung zur Reinhaltung der Luft |
| EU – European Union | TEL TRK – Technical Guidance Concentrations |
| ErC50 - EC50 in Terms of Reduction Growth Rate | ThOD – Theoretical Oxygen Demand |
| GHS – Globally Harmonized System of Classification and Labeling of | TLM - Median Tolerance Limit |
| Chemicals | TLV - Threshold Limit Value |
| IARC - International Agency for Research on Cancer | TPRD - Trumpalaikio Poveikio Ribinis Dydis |
| IATA - International Air Transport Association | TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von |
| IBC Code - International Bulk Chemical Code | Gefahrstoffen in ortsbeweglichen Behältern |
| IMDG - International Maritime Dangerous Goods | TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine |
| IPRV - Ilgalaikio Poveikio Ribinis Dydis | TRGS 900 - Technische Regel für Gefahrstoffe 900 – |
| IOELV – Indicative Occupational Exposure Limit Value | Arbeitsplatzgrenzwerte |
| LC50 - Median Lethal Concentration | TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische |
| LD50 - Median Lethal Dose | Grenzwerte |
| LOAEL - Lowest Observed Adverse Effect Level | TSCA - Toxic Substances Control Act |
| LOEC - Lowest-Observed-Effect Concentration | TWA - Time Weighted Average |
| Log Koc - Soil Organic Carbon-water Partitioning Coefficient | VOC – Volatile Organic Compounds |
| Log Kow - Octanol/water Partition Coefficient | VLA-EC - Valor Límite Ambiental Exposición de Corta Duración |
| Log Pow - Ratio of the equilibrium concentration (C) of a dissolved | VLA-ED - Valor Límite Ambiental Exposición Diaria |
| substance in a two-phase system consisting of two largely immiscible | VLE – Valeur Limite D'exposition |
| solvents, in this case octanol and water | VME – Valeur Limite De Moyenne Exposition |
| MAK – Maximum Workplace Concentration/Maximum Permissible | vPvB - Very Persistent and Very Bioaccumulative |
| Concentration | WEL – Workplace Exposure Limit |
| MARPOL - International Convention for the Prevention of Pollution | WGK - Wassergefährdungsklasse |
| EU GHS SDS | |

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.