Fragment Specific



Safety Data Sheet

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

Date of issue: 20/04/2024 Version: 3.1 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product Form : Mixture Product Name : AffiniPure[™] F(ab')₂ Fragment Rabbit Anti-Goat⁺⁺ IgG, F(ab')₂ Fragment Specific Product Code : 305-006-006 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 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 help@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

3.2. Mixture



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| Name | Product identifier | % | Classification According to Regulation (EC) No. 1272/2008 [CLP] | | | |
|---|---|-------------|--|--|--|--|
| AffiniPure™ F(ab') ₂ Fragment Rabbit | (CAS-No.) Not assigned | 0.11 | Not classified | | | |
| Anti-Goat ^{††} IgG, F(ab') ₂ Fragment | | | | | | |
| Specific | | | | | | |
| Sodium phosphate dibasic | (CAS-No.) 7558-79-4 | 0.14 | Not classified | | | |
| | (EC-No.) 231-448-7 | _ | | | | |
| Sodium chloride | (CAS-No.) 7647-14-5 | 1.44 | Not classified | | | |
| | (EC-No.) 231-598-3 | | | | | |
| SECTION 4: First aid measu | ires | | | | | |
| I.1. Description of first aid mea | sures | | | | | |
| First-aid measures general | | g by mouth | to an unconscious person. If you feel unwell, seek | | | |
| | medical advice (sh | ow the labe | el where possible). | | | |
| First-aid measures after inhalation | : Using proper respin | ratory prot | ection, move the exposed person to fresh air at once | | | |
| | | - | ter, physician, or emergency medical service. | | | |
| First-aid measures after skin contact | | | g. Drench affected area with water for at least 5 | | | |
| | | | ntion if irritation develops or persists. | | | |
| First-aid measures after eye contact | | | or at least 15 minutes. Remove contact lenses, if | | | |
| | develops or persist | | nue 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 | | | |
| | normal use. | Ū | · | | | |
| Symptoms/effects after inhalation | : May be harmful or | cause irrit | ation. | | | |
| Symptoms/effects after skin contact | : Prolonged exposure | e may caus | e skin irritation. | | | |
| Symptoms/effects after eye contact | : May cause slight ir | ritation to | eyes. | | | |
| Symptoms/effects after ingestion | : Ingestion may cause adverse effects. May be harmful if swallowed. | | | | | |
| Chronic symptoms | : None expected und | | | | | |
| .3. Indication of any immediat | | • | | | | |
| · · · · · · · · · · · · · · · · · · · | | cal advice | is needed, have product container or label at hand. | | | |
| SECTION 5: Firefighting me | easures | | | | | |
| .1. Extinguishing media | | | | | | |
| Suitable extinguishing media | | | 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 flam | | | | | |
| Explosion hazard | : Product is not expl | | | | | |
| Reactivity | | | occur under normal conditions. | | | |
| Hazardous decomposition products in case of fire | · · · · · · · · · · · · · · · · · · · | s. sourum | oxides. Hydrogen chloride gas. | | | |
| 5.3. Advice for firefighters | | | | | | |
| Precautionary measures fire | : Exercise caution wl | hen fightin | g any chemical fire. | | | |
| Firefighting instructions | | | ling exposed containers. | | | |
| | | | | | | |
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| Protection | during firefighting | : | Do not enter fire area without proper protective equipment, including respiratory protection. |
|-------------|-----------------------------|-----|--|
| SECTION | N 6: Accidental releas | se | measures |
| 6.1. Per | rsonal precautions, protect | ive | equipment and emergency procedures |
| General me | easures | : | 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. Env | vironmental precautions | | |
| | | : | Prevent entry to sewers and public waters. |
| 6.3. Me | thods and material for con | tai | nment and cleaning up |
| For contair | nment | : | Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods fo | or 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. Ref | erence 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 hand | ling | | | |
| 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. Avoid breathing vapors, mist, spray. | | | |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety procedures. | | | |
| 7.2. Conditions for safe storag | e, including any incompatibilities | | | |
| Technical measures | : Comply with applicable regulations. | | | |
| Storage conditions | Keep container closed when not in use. Store at 2-8°C (35.6°F - 46.4°F) under sterile conditions. Keep/Store away from direct sunlight, extremely high or low 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/m³ | | |
| Lithuania | IPRV (mg/m³) | 5 mg/m ³ | | |

8.2. **Exposure controls**

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| 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 llocal regulations are observed |

Personal protective equipment

entilation, especially in confined areas. Ensure all national/local regulations are observed. : Gloves. Protective clothing. Protective goggles.



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

Other information

- : 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.

| : | When | using, | do not | eat, | drink | or smoke | |
|---|------|--------|--------|------|-------|----------|--|
|---|------|--------|--------|------|-------|----------|--|

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1

| 9.1. Information on basic physical and | chemical properties |
|--|-----------------------|
| Physical state | : Liquid |
| Colour | : Colorless liquid |
| Odour | : Odourless, as water |
| Odour threshold | : No data available |
| рН | : 7.6 |
| 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 temperature | : 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 coefficient: 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 |
| 0.2 Others information | |

Other information 9.2.

No additional information available

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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 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 | | | |
| 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. | | | |
| | | | | |

- : May cause slight irritation to eyes.
- : Ingestion may cause adverse effects.
- : None expected under normal conditions of use.
- Potential adverse human health effects and symptoms

Symptoms/Injuries After Ingestion

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

SECTION 12: Ecological information

12.1. Toxicity

Chronic Symptoms



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| 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) |
| 2.2. Persistence and degradabi | ility |
| AffiniPure™ F(ab') ₂ Fragment Rabbit | Anti-Goat ^{††} IgG, F(ab') ₂ Fragment Specific |
| Persistence and degradability | Not established. |
| 2.3. Bioaccumulative potential | |
| AffiniPure™ F(ab') ₂ Fragment Rabbit | Anti-Goat ^{††} IgG, F(ab') ₂ Fragment Specific |
| Bioaccumulative potential | Not established. |
| Sodium chloride (7647-14-5) | |
| BCF fish 1 | (no bioaccumulation) |
| 2.4. Mobility in soil | |
| lo additional information available | |
| 2.5. Results of PBT and vPvB as | sessment |
| lo additional information available | |
| 2.6. Other adverse effects Other information | : Avoid release to the environment. |
| SECTION 13: Disposal cons | |
| | |
| 3.1. Waste treatment methods Product/Packaging disposal | Dispose of contents/container in accordance with local, regional, national, and |
| recommendations | international regulations. |
| Ecology - waste materials | : Avoid release to the environment. |
| SECTION 14: Transport inf | |
| | ein were prepared in accordance with certain assumptions at the time the SDS was authore |
| | riables that may or may not have been known at the time the SDS was issued. |
| n accordance with ADR / RID / IMDG / | |
| | |
| ADR IMDG | IATA ADN RID |

| ADR | INIDO | | ADN | RIĐ | | | | |
|----------------------------------|--|----------------|----------------|----------------|--|--|--|--|
| 14.1. UN num | nber | | | | | | | |
| Not regulated for | Not regulated for transport | | | | | | | |
| 14.2. UN prop | per shipping name | | | | | | | |
| Not applicable | Not applicable Not applicable Not applicable Not applicable Not applicable | | | | | | | |
| 14.3. Transport hazard class(es) | | | | | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | | | | |
| 14.4. Packing | group | | | | | | | |



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| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | |
|---------------------------------------|------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|--|
| 14.5. Environmental hazards | | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the 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

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

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)

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 | : 20/04/2024 | | | |
| 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 | |
|--|---|--|
| COD – Chemical Oxygen Demand | Chemicals | |
| EC – European Community | RID – Regulations Concerning the International Carriage of Dangerou | |
| 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 | |
| J 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.