Safety Data Sheet

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



Date of issue: 24/04/2024

Version: 3.1

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

1.1. Product identifier

- Product Form
- Product Name

: Mixture : AffiniPure™ F(ab')₂ Fragment Goat Anti-Rat IgG (H+L)

: 112-006-003

Product Code

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.

European Contact

1.2.2. Uses advised against

1.3. Details of the supplier of the safety data sheet

ividiful acturer	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

Name	Product identifier	%	Classification According to Regulation (EC) No.
			1272/2008 [CLP]

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AffiniPure™ F(ab') ₂ Fragment Goat (CAS-No.) Not assigned	0.11	Not classified
Anti-Rat IgG (H+L)			
	CAS-No.) 7558-79-4 EC-No.) 231-448-7	0.14	Not classified
	CAS-No.) 7647-14-5 EC-No.) 231-598-3	1.44	Not classified
SECTION 4: First aid measu	res		
4.1. Description of first aid meas	ures		
First-aid measures general			to an unconscious person. If you feel unwell, seek el where possible).
First-aid measures after inhalation	: Using proper respi	ratory prote	ection, move the exposed person to fresh air at once. ter, physician, or emergency medical service.
First-aid measures after skin contact	: Remove contamina	ted clothing	g. Drench affected area with water for at least 5 tion if irritation develops or persists.
First-aid measures after eye contact	: Rinse cautiously w	vith water fo o do. Contin	r at least 15 minutes. Remove contact lenses, if ue rinsing. Obtain medical attention if irritation
First-aid measures after ingestion	: Rinse mouth. Do N	OT induce v	omiting. Obtain medical attention.
4.2. Most important symptoms a	ind effects, both acute	and delay	ed
Symptoms/effects	: Not expected to pre normal use.	esent a signi	ificant hazard under anticipated conditions of
Symptoms/effects after inhalation	: May be harmful or	cause irrita	ation.
Symptoms/effects after skin contact	: Prolonged exposure may cause skin irritation.		
Symptoms/effects after eye contact	: May cause slight in		-
Symptoms/effects after ingestion	: Ingestion may cause adverse effects. May be harmful if swallowed.		
Chronic symptoms	: None expected und		
4.3. Indication of any immediate	medical attention and	d special tr	eatment needed
f exposed or concerned, get medical adv	vice and attention. If med	ical advice	is needed, have product container or label at hand.
SECTION 5: Firefighting mea	asures		
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray, fog, c	arbon dioxi	ide (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 spr			
5.2. Special hazards arising from			ini. Ose of neavy stream of water may spread me.
Fire hazard	: Product is not flam		
Explosion hazard		roduct is not explosive.	
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 w		
Firefighting instructions		•	ling exposed containers.
Protection during firefighting	: Do not enter fire an protection.	rea without	proper protective equipment, including respiratory

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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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 s	torage
7.1. Precautions for safe handl	ing
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 storage	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/m ³
Lithuania	IPRV (mg/m ³)	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.

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Personal protective equipment

Materials for protective clothing

: Gloves. Protective clothing. Protective goggles.



- : 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

Hand protection

Eye and Face Protection

Respiratory protection

Skin and body protection

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

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical properties
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3.1. Information on basic physical and the	inical 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 Other information	

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/m³ (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.	
Chronic Symptoms	: None expected under normal conditions of use.	
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
SECTION 12: Ecological informa	tion	
2.1. Toxicity		
Ecology - general :	Not classified.	
Sodium chloride (7647-14-5)		

5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus



LC50 fish 1

[flow-through])

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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.	
2.3. Bioaccumulative potential		
AffiniPure™ F(ab') ₂ Fragment Goat A	nti-Rat IgG (H+L)	
Bioaccumulative potential	Not established.	
Sodium chloride (7647-14-5)		
BCF fish 1	(no bioaccumulation)	
2.4. Mobility in soil		
lo 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	: 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 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 regulated for transport						
14.2. UN proper shipping name						
Not applicab	le Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)						
Not applicab	le Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicab	le Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Dangerous fo	r the Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the		
environment	: No environment : No	environment : No	environment : No	environment : No		
	Marine pollutant : No					

14.6. Special precautions for user

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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

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

	 24/04/2024 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

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
1272/2008	REACH – Registration, Evaluation, Authorisation, and Restriction of
COD – Chemical Oxygen Demand	Chemicals
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

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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 EU GHS SDS

ThOD - Theoretical Oxygen Demand TLM - 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.