Safety Data Sheet

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



Date of issue: 10/11/2022 Version: 3.1 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Product Form : Mixt		: Mixture			
Product Name :		: AffiniPure VHH Fragment Alpaca Anti-Rabbit IgG (H+L) (minimal cross-reaction to			
		Bovine, Human, and Mouse Serum Proteins)			
Produ	uct Code	: 611-004-215			
1.2.	Relevant identified uses of the su	bstance or mixture and uses advised against			
1.2.1.	Relevant identified uses	-			
Use o	f 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 ado	litional information available				
1.3.	Details of the supplier of the	safety data sheet			
-	lfacturer	European Contact			
	on ImmunoResearch Laboratories, I	·			
	Vest Baltimore Pike	Cambridge House			
	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			
	2jacksonimmuno.com	F: +44 (0) 1353 664675			
	jacksonimmuno.com	info@jacksonimmuno.com			
~~~~	Jacksonninuno.com	help@jacksonimmuno.com			
Empil	address for the person responsible				
	address for the person responsible				
	🦻 jacksonimmuno.com				
1.4.	Emergency telephone numbe				
1 00 0 0	ronov number 116				

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 VHH Fragment Alpaca Anti-Rabbit IgG (H+L) (minimal cross-reaction to Bovine, Human, and Mouse Serum Proteins)	(CAS-No.) Not assigned	0.1	Not classified			
Sodium phosphate dibasic	(CAS-No.) 7558-79-4	0.14	Not classified			
	(EC-No.) 231-448-7	0.14				
Sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	1.44	Not classified			
SECTION 4: First aid measu	ures					
4.1. Description of first aid mea	asures					
First-aid measures general	: Never give anything medical advice (sh		to an unconscious person. If you feel unwell, seek el where possible).			
First-aid measures after inhalation			ection, move the exposed person to fresh air at once hter, physician, or emergency medical service.			
First-aid measures after skin contact						
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			omiting. Obtain medical attention.			
I.2. Most important symptoms		-				
Symptoms/effects	: Not expected to pre normal use.	esent a sign	ificant hazard under anticipated conditions of			
Symptoms/effects after inhalation	: May be harmful or					
Symptoms/effects after skin contact	: Prolonged exposure may cause skin irritation.					
Symptoms/effects after eye contact	: May cause slight in		-			
Symptoms/effects after ingestion	<ul> <li>Ingestion may cause adverse effects. May be harmful if swallowed.</li> <li>None expected under normal conditions of use.</li> </ul>					
Chronic symptoms	-					
1.3. Indication of any immedia		•				
		ical advice	is needed, have product container or label at hand			
SECTION 5: Firefighting m	easures					
<b>5.1. Extinguishing media</b> Suitable extinguishing media	· Water spray fog c	arbon diov	ide (CO ₂ ), alcohol-resistant foam, or dry chemical.			
Suitable extiliguisting media						
Unquitable optinguishing modia	Use extinguishing media appropriate for surrounding fire. : Do not use a heavy water stream. Use of heavy stream of water may spread fire.					
Unsuitable extinguishing media 5.2. Special hazards arising from	-		ani. Ose of neavy stream of water may spread fire.			
5.2. Special hazards arising from Fire hazard	: Product is not flam					
Explosion hazard						
Reactivity	-	: Product is not explosive. : Hazardous reactions will not occur under normal conditions.				
Hazardous decomposition products i		: Phosphorous oxides. Sodium oxides. Hydrogen chloride gas.				
case of fire		.s. sourunn				
5.3. Advice for firefighters						
Precautionary measures fire	: Exercise caution w	aution when fighting any chemical fire.				
Firefighting instructions			ling exposed containers.			

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Protec	tion during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.		
SECT	ION 6: Accidental releas	e	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.		
Emerg	ency 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	tai	nment and cleaning up		
For co	ntainment	:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		
Metho	ds 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	ncluding any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep container closed when not in use. Store at 2-8°C (35°F - 46.4°F). Keep/Store away from extremely high temperatures and incompatible materials.			
Incompatible materials	: Strong acids, strong bases, strong oxidizers. Heavy metals. Halogenated hydrocarbons.			

#### 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/m³

#### 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

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

#### 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
9.2. Other information		

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 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 Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure	<ul> <li>Not classified</li> </ul>			
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 symptoms	<ul> <li>Not classified</li> <li>Prolonged exposure may cause irritation.</li> <li>Prolonged exposure may cause skin irritation.</li> <li>May cause slight irritation to eyes.</li> <li>Ingestion may cause adverse effects.</li> <li>None expected under normal conditions of use.</li> <li>Based on available data, the classification criteria are not met.</li> </ul>			

#### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general

: Not classified.





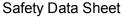
According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 degradability			
AffiniPure VHH Fragment Alpaca Anti-Ra	obit IgG (H+L) (minimal cross-reaction to Bovine, Human, and Mouse Serum Proteins)		
Persistence and degradability	Not established.		
2.3. Bioaccumulative potential			
AffiniPure VHH Fragment Alpaca Anti-Ra	bbit IgG (H+L) (minimal cross-reaction to Bovine, Human, and Mouse Serum Proteins)		
Bioaccumulative potential	Not established.		
Sodium chloride (7647-14-5)			
BCF fish 1	(no bioaccumulation)		
L2.4. Mobility in soil No additional information available			
<b>L2.5. Results of PBT and vPvB asses</b> No additional information available	sment		
12.6. Other adverse effects			
Other information	: Avoid release to the environment.		
SECTION 13: Disposal consid	erations		
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. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.		

#### 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	ulated for transp	ort			
14.2.	UN proper shi	pping name			
Not ap	plicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard 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





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14.5. Environmental hazards				
Dangerous for 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

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

40

No additional information available

#### 15.2. Chemical safety assessment

**N** 1 1

No chemical safety assessment has been carried out

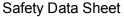
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SECTION 16: Other Information				
Date of Preparation or Latest Revision	: 10/11/2022			
Data sources	: Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory 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
1272/2008	REACH – Registration, Evaluation, Authorisation, and Restriction of
COD – Chemical Oxygen Demand	Chemicals





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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 FU 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.