



SDS for RELISA® Cardiolipin IgG and IgM Test Systems

Please note that this document contains a complete set of safety data sheet documents assembled for your convenience.

If you have any questions please contact Technical Support.

Table of Contents:

- [RELISA® Plate](#)
- [RELISA® IgG, IgM Kit Controls](#)
- [RELISA® Anticardiolipin Antibody Negative Control](#)
- [RELISA® Anticardiolipin Antibody Enzyme Antibody Reagent – Human IgG Specific](#)
- [RELISA® Anticardiolipin Antibody Enzyme Antibody Reagent – Human IgM Specific](#)
- [RELISA® Sample Diluent](#)
- [RELISA® Substrate Solution](#)
- [RELISA® Stopping Reagent](#)
- [PBS Buffer Powder](#)

1.800.251.5115
technicalsupport@immunoconcepts.com

www.immunoconcepts.com

SECTION 1: IDENTIFICATION**Product Identifier:** RELISA® Plate**Recommended Use and Restrictions on Use:** For In Vitro diagnostic use only**Responsible Party:**

Name: Immuno Concepts N.A. Ltd.

Address: 9825 Goethe Road Suite 350, Sacramento, CA, 95827, USA

www.immunoconcepts.com

Technical Support: 1-800-251-5115; technicalsupport@immunoconcepts.com

SECTION 2: HAZARD(S) IDENTIFICATION**Chemical Classification(s)**

Not classified in accordance to EC No. 1272/2008

Signal Word

None

Hazard Statement(s)

None

Symbol(s)

None

Precautionary Statement(s)

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Percent Range
Desiccant	NA	NA
Antigen coated microwell strips	NA	NA
96 well frame holder	NA	NA
Foil pouch	NA	NA

This product contains materials of animal origin.

SECTION 4: FIRST – AID MEASURES**First Aid: Eyes**

None needed.

First Aid: Skin

None needed.

First Aid: Ingestion

None needed.

First Aid: Inhalation

None needed.

SECTION 5: FIRE – FIGHTING MEASURES**General Fire Hazards**

None; See section 9 for Flammability Properties.

Hazardous Combustion Products

None

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Recovery and Neutralization**

None

Materials and Methods for Clean-Up

Pick up material and dispose in accordance with applicable requirements.

Emergency Measures

None necessary.

Personal Precautions and Protective Equipment

None necessary.

Environmental Precautions

None

Prevention of Secondary Hazards

None

SECTION 7: HANDLING AND STORAGE**Handling Procedures**

None needed.

Storage Procedures

None needed.

Incompatibilities

None

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Component Exposure Limits**

This product does not contain any substances with occupational exposure limit values.

Engineering Measures

None needed.

Personal Protective Equipment: Respiratory

None needed.

Personal Protective Equipment: Hands

None needed.

Personal Protective Equipment: Eyes

None needed.

Personal Protective Equipment: Skin and Body

None needed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	RELISA® plate in a foil pouch with desiccant.	Upper Flammability Limit (UFL):	NA
Physical State:	Solid	Lower Flammability Limit (LFL):	NA
Odor:	None	Vapor Pressure:	NA
Odor Threshold:	NA	Vapor Density:	NA
pH:	NA	Relative Density:	NA
Melting/Freezing Point:	NA	Solubility(ies):	NA
Boiling Point:	NA	Partition Coefficient (n-octanol/water):	NA
Flash Point:	NA	Auto Ignition Temperature:	NA
Evaporation Rate:	NA	Decomposition Temperature:	NA
Flammability (solid, gas):	NA	Viscosity:	NA

SECTION 10: STABILITY AND REACTIVITY**Chemical Stability**

This is stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

None

Hazardous Decomposition Products

None

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Component Analysis – LD50/LC50

Not applicable for this product.

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation hazard effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

This product does not contain components reported to have any carcinogenic effects.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeated exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

California Proposition 65 Component Hazard

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No information available for the product

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Instructions

See section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Observe all local, regional, and national regulations.

SECTION 14: TRANSPORT INFORMATION

UN Information		Environmental Hazards	
Number:	NA	Marine Pollutant:	NA
Shipping Name:	NA	Transport in Bulk:	NA
Transport Hazard Class:	NA	Special Precautions for User:	NA
Packing Group:	NA	IMDG Information	
		Shipping Name:	NA

SECTION 15: REGULATORY INFORMATION

EU Marking & Labeling:

Symbol(s):

None

Risk Phrases:

None

Substance Analysis – Inventory

No information available for the product.

SECTION 16: OTHER INFORMATION

Certificate of Origin:

Products of Bovine, Ovine and/or Caprine Origin used in the manufacture of Immuno Concepts' products are derived from animals born and raised in the United States of America or Canada and do not contain any hazardous materials.

I hereby certify that at the origin of the shipments and within a radius of 25km, there has been no animal epidemic during the time of manufacturing or dispatch, under the OIE list A, nor has there been any reported disease in the last 24 months from which the products and product components are obtained and reported.

Authorized Signature

Date

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; NA = Not applicable; ND = Not determined

Literature References

Available on request.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Immuno Concepts, N.A. Ltd, shall not be held liable for any damage resulting from handling or contact with the above product.

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SECTION 1: IDENTIFICATION

Product Identifier: RELISA® ACL IgG Positive Control
RELISA® ACL IgM Positive Control
RELISA® ACL IgG Calibrator Serum
RELISA® ACL IgM Calibrator Serum

Recommended Use and Restrictions on Use: For In Vitro diagnostic use only

Responsible Party:

Name: Immuno Concepts N.A. Ltd.
Address: 9825 Goethe Road Suite 350, Sacramento, CA, 95827, USA
www.immunoconcepts.com
Technical Support: 1-800-251-5115; technicalsupport@immunoconcepts.com

SECTION 2: HAZARD(S) IDENTIFICATION**Chemical Classification(s)**

Not classified in accordance to EC No. 1272/2008

Signal Word

None

Hazard Statement(s)

None

Symbol(s)

None

Precautionary Statement(s)

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous and non-hazardous ingredients are listed only if present at a concentration of 1% or greater (0.1% for carcinogens).

Component	CAS #	Percent Range
Water	7732-18-5	> 88%*
Bovine serum	9048-46-8	< 12%*

*Specific percentages of composition are being withheld as a trade secret.

This product contains materials of animal origin.

SECTION 4: FIRST – AID MEASURES**First Aid: Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

First Aid: Skin

Wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

SECTION 5: FIRE – FIGHTING MEASURES**General Fire Hazards**

None; See section 9 for Flammability Properties.

Hazardous Combustion Products

None

Extinguishing Media

Use carbon dioxide, dry chemical, water spray, or alcohol-resistant foam.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear. Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Recovery and Neutralization

None

Materials and Methods for Clean-Up

Soak-up with inert absorbent material. Keep in suitable closed container and hold for waste disposal.
Ventilate area and wash spill site after material pick up is complete.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate attire to minimize skin contact.

Environmental Precautions

Do not allow product to enter drains.

Prevention of Secondary Hazards

None

SECTION 7: HANDLING AND STORAGE

Handling Procedures

Wash skin thoroughly after handling.

Storage Procedures

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatibilities

Avoid contact with strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

This product does not contain any substances with occupational exposure limit values.

Engineering Measures

Ensure that eyewash and safety showers are close to the workstation location. Ensure adequate ventilation.

Personal Protective Equipment: Respiratory

Use NIOSH/MSHA approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Personal Protective Equipment: Hands

Use impervious gloves.

Personal Protective Equipment: Eyes

Wear NIOSH approved safety glasses or face shield.

Personal Protective Equipment: Skin and Body

Wear lab coat to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		Flammability (solid, gas):	ND
Positive control:	Green	Upper Flammability Limit (UFL):	ND
Calibrator(s):	Yellow	Lower Flammability Limit (LFL):	ND
Physical State:	Liquid	Vapor Pressure:	ND
Odor:	None	Vapor Density:	ND
Odor Threshold:	ND	Relative Density:	ND
pH:	7.4 ± 0.2	Solubility(ies):	ND
Melting/Freezing Point:	ND	Partition Coefficient (n-octanol/water):	ND
Boiling Point:	ND	Auto Ignition Temperature:	ND
Flash Point:	ND	Decomposition Temperature:	ND

Evaporation Rate: ND

Viscosity: ND

SECTION 10: STABILITY AND REACTIVITY**Chemical Stability**

This is stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Irritating toxic fumes and gases.

SECTION 11: TOXICOLOGICAL INFORMATION**Acute Toxicity:****Component Analysis – LD50/LC50**

No LD50/LC50's are available for this product's components.

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation hazard effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity**A: General Product Information**

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

This product does not contain components reported to have any carcinogenic effects.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeated exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

California Proposition 65 Component Hazard

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity****A: General Product Information**

This product is not reported to have any ecotoxicity effects.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No information available for the components of this product.

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Instructions

See section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Observe all local, regional, and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: TRANSPORT INFORMATION

UN Information

Number: None
Shipping Name: None
Transport Hazard Class: None
Packing Group: None

Environmental Hazards

Marine Pollutant: None
Transport in Bulk: None
Special Precautions for User: NA
IMDG Information
Shipping Name: None

SECTION 15: REGULATORY INFORMATION

EU Marking & Labeling:

Symbol(s):

None

Risk Phrases:

None

Substance Analysis – Inventory

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Water 7732-18-5	No	Yes	Yes
Bovine serum 9048-46-8	NA	Yes	NA

SECTION 16: OTHER INFORMATION

Certificate of Origin:

Products of Bovine, Ovine and/or Caprine Origin used in the manufacture of Immuno Concepts' products are derived from animals born and raised in the United States of America or Canada and do not contain any hazardous materials.

I hereby certify that at the origin of the shipments and within a radius of 25km, there has been no animal epidemic during the time of manufacturing or dispatch, under the OIE list A, nor has there been any reported disease in the last 24 months from which the products and product components are obtained and reported.

Authorized Signature

Date

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS =

European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; NA = Not applicable; ND = Not determined

Literature References

Available on request.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Immuno Concepts, N.A. Ltd, shall not be held liable for any damage resulting from handling or contact with the above product.

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SECTION 1: IDENTIFICATION**Product Identifier:** RELISA® Anticardiolipin Antibody Negative Control**Recommended Use and Restrictions on Use:** For In Vitro diagnostic use only**Responsible Party:**

Name: Immuno Concepts N.A. Ltd.

Address: 9825 Goethe Road Suite 350, Sacramento, CA, 95827, USA

www.immunoconcepts.com

Technical Support: 1-800-251-5115; technicalsupport@immunoconcepts.com

SECTION 2: HAZARD(S) IDENTIFICATION**Chemical Classification(s)**

Not classified in accordance to EC No. 1272/2008

Signal Word

None

Hazard Statement(s)

None

Symbol(s)

None

Precautionary Statement(s)

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous and non-hazardous ingredients are listed only if present at a concentration of 1% or greater (0.1% for carcinogens).

Component	CAS #	Percent Range
Water	7732-18-5	> 86%*
Bovine serum	9048-46-8	< 10%*
Base sera	NA	< 4%*

*Specific percentages of composition are being withheld as a trade secret.

This product contains materials of animal origin.

SECTION 4: FIRST – AID MEASURES**First Aid: Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

First Aid: Skin

Wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

SECTION 5: FIRE – FIGHTING MEASURES**General Fire Hazards**

None; See section 9 for Flammability Properties.

Hazardous Combustion Products

None

Extinguishing Media

Use carbon dioxide, dry chemical, water spray, or alcohol-resistant foam.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear. Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Recovery and Neutralization**

None

Materials and Methods for Clean-UpSoak-up with inert absorbent material. Keep in suitable closed container and hold for waste disposal.
Ventilate area and wash spill site after material pick up is complete.**Emergency Measures**

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate attire to minimize skin contact.

Environmental Precautions

Do not allow product to enter drains.

Prevention of Secondary Hazards

None

SECTION 7: HANDLING AND STORAGE**Handling Procedures**

Wash skin thoroughly after handling.

Storage Procedures

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatibilities

Avoid contact with strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Component Exposure Limits**

This product does not contain any substances with occupational exposure limit values.

Engineering Measures

Ensure that eyewash and safety showers are close to the workstation location. Ensure adequate ventilation.

Personal Protective Equipment: Respiratory

Use NIOSH/MSHA approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Personal Protective Equipment: Hands

Use impervious gloves.

Personal Protective Equipment: Eyes

Wear NIOSH approved safety glasses or face shield.

Personal Protective Equipment: Skin and Body

Wear lab coat to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pink	Upper Flammability Limit (UFL):	ND
Physical State:	Liquid	Lower Flammability Limit (LFL):	ND
Odor:	None	Vapor Pressure:	ND
Odor Threshold:	ND	Vapor Density:	ND
pH:	7.4 ± 0.2	Relative Density:	ND
Melting/Freezing Point:	ND	Solubility(ies):	ND
Boiling Point:	ND	Partition Coefficient (n-octanol/water):	ND
Flash Point:	ND	Auto Ignition Temperature:	ND
Evaporation Rate:	ND	Decomposition Temperature:	ND
Flammability (solid, gas):	ND	Viscosity:	ND

SECTION 10: STABILITY AND REACTIVITY**Chemical Stability**

This is stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Irritating toxic fumes and gases.

SECTION 11: TOXICOLOGICAL INFORMATION**Acute Toxicity:****Component Analysis – LD50/LC50**

No LD50/LC50's are available for this product's components.

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation hazard effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity**A: General Product Information**

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

This product does not contain components reported to have any carcinogenic effects.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeated exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

California Proposition 65 Component Hazard

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity****A: General Product Information**

This product is not reported to have any ecotoxicity effects.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No information available for the components of this product.

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Instructions

See section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Observe all local, regional, and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: TRANSPORT INFORMATION

UN Information		Environmental Hazards	
Number:	None	Marine Pollutant:	None
Shipping Name:	None	Transport in Bulk:	None
Transport Hazard Class:	None	Special Precautions for User:	NA
Packing Group:	None	IMDG Information	
		Shipping Name:	None

SECTION 15: REGULATORY INFORMATION

EU Marking & Labeling:

Symbol(s):

None

Risk Phrases:

None

Substance Analysis – Inventory

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Water 7732-18-5	No	Yes	Yes
Bovine serum 9048-46-8	NA	Yes	NA
Base sera NA	NA	NA	NA

SECTION 16: OTHER INFORMATION

Certificate of Origin:

Products of Bovine, Ovine and/or Caprine Origin used in the manufacture of Immuno Concepts' products are derived from animals born and raised in the United States of America or Canada and do not contain any hazardous materials.

I hereby certify that at the origin of the shipments and within a radius of 25km, there has been no animal epidemic during the time of manufacturing or dispatch, under the OIE list A, nor has there been any reported disease in the last 24 months from which the products and product components are obtained and reported.

Authorized Signature

Date

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified

Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; NA = Not applicable; ND = Not determined

Literature References

Available on request.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Immuno Concepts, N.A. Ltd, shall not be held liable for any damage resulting from handling or contact with the above product.

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SECTION 1: IDENTIFICATION

Product Identifier: RELISA® Anticardiolipin Antibody Enzyme Antibody Reagent – Human IgG Specific
RELISA® Anticardiolipin Antibody Enzyme Antibody Reagent – Human IgM Specific
RELISA® Sample Diluent

Recommended Use and Restrictions on Use: For In Vitro diagnostic use only

Responsible Party:

Name: Immuno Concepts N.A. Ltd.
Address: 9825 Goethe Road Suite 350, Sacramento, CA, 95827, USA
www.immunoconcepts.com
Technical Support: 1-800-251-5115; technicalsupport@immunoconcepts.com

SECTION 2: HAZARD(S) IDENTIFICATION

Chemical Classification(s)

Not classified in accordance to EC No. 1272/2008

Signal Word

None

Hazard Statement(s)

None

Symbol(s)

None

Precautionary Statement(s)

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous and non-hazardous ingredients are listed only if present at a concentration of 1% or greater (0.1% for carcinogens).

Component	CAS #	Percent Range
Water	7732-18-5	< 90%*
Bovine serum	9048-46-8	< 10%*

*Specific percentages of composition are being withheld as a trade secret.

This product contains materials of animal origin.

SECTION 4: FIRST – AID MEASURES

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

First Aid: Skin

Wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

SECTION 5: FIRE – FIGHTING MEASURES

General Fire Hazards

None; See section 9 for Flammability Properties.

Hazardous Combustion Products

None

Extinguishing Media

Use carbon dioxide, dry chemical, water spray, or alcohol-resistant foam.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear. Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Recovery and Neutralization

None

Materials and Methods for Clean-Up

Soak-up with inert absorbent material. Keep in suitable closed container and hold for waste disposal.
Ventilate area and wash spill site after material pick up is complete.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate attire to minimize skin contact.

Environmental Precautions

Do not allow product to enter drains.

Prevention of Secondary Hazards

None

SECTION 7: HANDLING AND STORAGE

Handling Procedures

Wash skin thoroughly after handling.

Storage Procedures

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatibilities

Avoid contact with strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

This product does not contain any substances with occupational exposure limit values.

Engineering Measures

Ensure that eyewash and safety showers are close to the workstation location. Ensure adequate ventilation.

Personal Protective Equipment: Respiratory

Use NIOSH/MSHA approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Personal Protective Equipment: Hands

Use impervious gloves.

Personal Protective Equipment: Eyes

Wear NIOSH approved safety glasses or face shield.

Personal Protective Equipment: Skin and Body

Wear lab coat to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		Flammability (solid, gas):	ND
IgG system:	Yellow	Upper Flammability Limit (UFL):	ND
IgM system:	Blue	Lower Flammability Limit (LFL):	ND
Sample Diluent:	Pink	Vapor Pressure:	ND
Physical State:	Liquid	Vapor Density:	ND
Odor:	None	Relative Density:	ND
Odor Threshold:	ND	Solubility(ies):	ND
pH:	7.4 ± 0.2	Partition Coefficient (n-octanol/water):	ND
Melting/Freezing Point:	ND	Auto Ignition Temperature:	ND
Boiling Point:	ND	Decomposition Temperature:	ND
Flash Point:	ND	Viscosity:	ND

Evaporation Rate: ND

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

This is stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Irritating toxic fumes and gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Component Analysis – LD50/LC50

No LD50/LC50's are available for this product's components.

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation hazard effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

This product does not contain components reported to have any carcinogenic effects.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeated exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

California Proposition 65 Component Hazard

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No information available for the components of this product.

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Instructions

See section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Observe all local, regional, and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: TRANSPORT INFORMATION

UN Information

Number: None
Shipping Name: None
Transport Hazard Class: None
Packing Group: None

Environmental Hazards

Marine Pollutant: None
Transport in Bulk: None
Special Precautions for User: NA
IMDG Information
Shipping Name: None

SECTION 15: REGULATORY INFORMATION

EU Marking & Labeling:

Symbol(s):

None

Risk Phrases:

None

Substance Analysis – Inventory

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Water 7732-18-5	No	Yes	Yes
Bovine serum 9048-46-8	NA	Yes	NA

SECTION 16: OTHER INFORMATION

Certificate of Origin:

Products of Bovine, Ovine and/or Caprine Origin used in the manufacture of Immuno Concepts' products are derived from animals born and raised in the United States of America or Canada and do not contain any hazardous materials.

I hereby certify that at the origin of the shipments and within a radius of 25km, there has been no animal epidemic during the time of manufacturing or dispatch, under the OIE list A, nor has there been any reported disease in the last 24 months from which the products and product components are obtained and reported.

 Authorized Signature

 Date

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified

Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; NA = Not applicable; ND = Not determined

Literature References

Available on request.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Immuno Concepts, N.A. Ltd, shall not be held liable for any damage resulting from handling or contact with the above product.

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SECTION 1: IDENTIFICATION**Product Identifier:** RELISA® Substrate Solution**Recommended Use and Restrictions on Use:** For In Vitro diagnostic use only**Responsible Party:**

Name: Immuno Concepts N.A. Ltd.

Address: 9825 Goethe Road Suite 350, Sacramento, CA, 95827, USA

www.immunoconcepts.com

Technical Support: 1-800-251-5115; technicalsupport@immunoconcepts.com

SECTION 2: HAZARD(S) IDENTIFICATION**Chemical Classification(s)**

Flammable Liquids 3

Serious Eye Damage/Irritation 2A

Specific Target Organ Toxicity Single Exposure 3

Signal Word

DANGER

Hazard Statement(s)

Flammable liquid and vapor

Causes eye irritation

May cause respiratory irritation

Symbol(s)**Precautionary Statement(s)****Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing dust, vapors, or spray.

Wash hands thoroughly after handling.

Use only in a well-ventilated area.

Wear protective gloves and clothing.

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water.

In case of fire: Use carbon dioxide, dry chemical, or alcohol-resistant foam to extinguish.

Storage

Store in a cool dry place.

Disposal

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous and non-hazardous ingredients are listed only if present at a concentration of 1% or greater (0.1% for carcinogens).

Component	CAS #	Percent Range
Water	7732-18-5	> 60%*
Methanol	67-56-1	< 25%*
Dimethyl sulfoxide (DMSO)	67-68-5	< 10%*

Acetone	67-64-1	< 5%*
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*Specific percentages of composition are being withheld as a trade secret.

SECTION 4: FIRST – AID MEASURES

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

First Aid: Skin

Wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

SECTION 5: FIRE – FIGHTING MEASURES

General Fire Hazards

This product is flammable; Risk of ignition; See section 9 for Flammability Properties.

Hazardous Combustion Products

None

Extinguishing Media

Use carbon dioxide, dry chemical, or alcohol-resistant foam.

Unsuitable Extinguishing Media

Water may be ineffective.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear. Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Recovery and Neutralization

None

Materials and Methods for Clean-Up

Soak-up with inert absorbent material. Keep in suitable closed container and hold for waste disposal.

Ventilate area and wash spill site after material pick up is complete.

Emergency Measures

Isolate area. Remove all sources of ignition. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate attire to minimize skin contact.

Environmental Precautions

Do not allow product to enter drains.

Prevention of Secondary Hazards

None

SECTION 7: HANDLING AND STORAGE

Handling Procedures

Wash skin thoroughly after handling.

Storage Procedures

Keep containers tightly closed in a dry, cool and well-ventilated place. STORE PROTECTED FROM LIGHT.

Incompatibilities

Avoid contact with usually strong oxidizing agents, strong acids, strong bases, and metals.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Methanol (67-56-1)

ACGIH: 200 ppm TWA [TLV]

250 ppm STEL [TLV]

Skin
 OSHA: 200 ppm TWA [PEL]; 260 mg/m³ TWA [PEL]
 250 ppm STEL [PEL]; 325 mg/m³ STEL [PEL]
 Skin
 NIOSH: 6000 ppm IDLH
 200 ppm TWA [IDLH]; 260 mg/m³ TWA [IDLH]
 250 ppm STEL [IDLH]; 325 mg/m³ STEL [IDLH]
 Quebec: 200 ppm TWA; 262 mg/m³ TWA
 250 ppm STEL; 328 mg/m³ STEL
 Skin
 Mexico: 200 ppm TWA [OEL]; 260 mg/m³ TWA [OEL]
 250 ppm TWA [OEL]; 310 mg/m³ TWA [OEL]
 Ontario: 200 ppm TWA [TWAEV]
 250 ppm STEL [TWAEV]
 Skin

DMSO (67-68-5)

No data available.

Acetone (67-64-1)

ACGIH: 500 ppm TWA
 750 ppm STEL
 OSHA: 1000 ppm TWA; 2400 mg/m³ TWA
 NIOSH: 250 ppm TWA; 590 mg/m³ TWA
 2500 ppm IDLH (10% LEL)

Engineering Measures

Ensure that eyewash and safety showers are close to the workstation location. Ensure adequate ventilation.

Personal Protective Equipment: Respiratory

Use NIOSH/MSHA approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Personal Protective Equipment: Hands

Use impervious gloves.

Personal Protective Equipment: Eyes

Wear NIOSH approved safety glasses or face shield.

Personal Protective Equipment: Skin and Body

Wear lab coat to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless; Light blue if exposed to light	Upper Flammability Limit (UFL):	ND
Physical State:	Liquid	Lower Flammability Limit (LFL):	ND
Odor:	None	Vapor Pressure:	ND
Odor Threshold:	ND	Vapor Density:	ND
pH:	5.95 ± 0.05	Relative Density:	ND
Melting/Freezing Point:	ND	Solubility(ies):	ND
Boiling Point:	ND	Partition Coefficient (n-octanol/water):	ND
Flash Point:	ND	Auto Ignition Temperature:	ND
Evaporation Rate:	ND	Decomposition Temperature:	ND
Flammability (solid, gas):	ND	Viscosity:	ND

SECTION 10: STABILITY AND REACTIVITY**Chemical Stability**

This is stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid exposure to light, moist air, heat, and sources of ignition.

Incompatible Products

Avoid contact with strong oxidizing agents, strong acids, strong bases, and metals.

Hazardous Decomposition Products

Irritating toxic fumes and gases.

SECTION 11: TOXICOLOGICAL INFORMATION**Acute Toxicity:****Component Analysis – LD50/LC50****Methanol (67-56-1)**

Oral LD50: Mouse 7300 mg/kg; Rabbit 14200 mg/kg; Rat 5628 mg/kg
Dermal LD50: Rabbit 15800 mg/kg
Inhalation LC50: Rat 64000 ppm 4 HR

DMSO (67-68-5)

Oral LD50: Rat 14500 mg/kg; Mouse 7920 mg/kg
Dermal LD50: Rat 40 g/kg
Inhalation LC50: no data available

Acetone (67-64-1)

Oral LD50: Mouse 3 g/kg; Rabbit 5340 mg/kg; Rat 5800 mg/kg
Dermal LD50: Guinea pig > 9400 uL/kg
Inhalation LC50: Mouse 44 g/m³ 4 HR; Rat 50100 mg/m³ 8 HR

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation hazard effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity**A: General Product Information**

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

This product does not contain components reported to have any carcinogenic effects.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

Single exposure of this product may cause respiratory irritation.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeated exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

California Proposition 65 Component Hazard

Methanol (67-56-1)

Developmental

DMSO (67-68-5)
Not listed**Acetone (67-64-1)**
Not listed**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity****A: General Product Information**

This product is not reported to have any ecotoxicity effects.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity**Methanol (67-56-1)****Test & Species**

96 Hr LC50 Fathead minnow	29.4 g/L
11 Hr LC50 Goldfish	Death at 250 ppm
48 Hr LC50 Rainbow trout	8000 mg/L

DMSO (67-68-5)**Test & Species**

No data available.

Acetone (67-64-1)**Test & Species**

96 Hr LC50 Rainbow trout	5540 mg/L
24 Hr LC50 Sunfish (tap water)	Death at 14250 ppm
48 Hr LC50 Mosquito fish (turbid water)	13000 ppm
96 Hr LC50 Fathead minnow	7280-8120 mg/L
96 Hr LC50 Bluegill	8300 mg/L

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste Disposal Instructions**

See section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Observe all local, regional, and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: TRANSPORT INFORMATION**UN Information**

Number:	None
Shipping Name:	None
Transport Hazard Class:	None
Packing Group:	None

Environmental Hazards

Marine Pollutant:	None
Transport in Bulk:	None
Special Precautions for User:	NA
IMDG Information	
Shipping Name:	None

SECTION 15: REGULATORY INFORMATION

EU Marking & Labeling:**Symbol(s):**

None

Risk Phrases:

None

Substance Analysis – Inventory

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Water 7732-18-5	No	Yes	Yes
Methanol 67-56-1	No	Yes	Yes
Dimethyl sulfoxide (DMSO) 67-68-5	No	Yes	Yes
Acetone 67-64-1	No	Yes	Yes

SECTION 16: OTHER INFORMATION**Key/Legend**

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; NA = Not applicable; ND = Not determined

Literature References

Available on request.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Immuno Concepts, N.A. Ltd, shall not be held liable for any damage resulting from handling or contact with the above product.

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SECTION 1: IDENTIFICATION**Product Identifier:** RELISA® Stopping Reagent**Recommended Use and Restrictions on Use:** For In Vitro diagnostic use only**Responsible Party:**

Name: Immuno Concepts N.A. Ltd.

Address: 9825 Goethe Road Suite 350, Sacramento, CA, 95827, USA

www.immunoconcepts.com

Technical Support: 1-800-251-5115; technicalsupport@immunoconcepts.com

SECTION 2: HAZARD(S) IDENTIFICATION**Chemical Classification(s)**

Corrosive to Metals 1

Skin Corrosion/Irritation 1

Specific Target Organ Toxicity Single Exposure 3

Signal Word

DANGER

Hazard Statement(s)

May be corrosive to metals

Causes severe skin burns and eye damage

May cause respiratory irritation

Symbol(s)**Precautionary Statement(s)****Prevention**

Do not breathe dusts or mists.

Wash hands thoroughly after handling.

Use only in a well-ventilated area.

Wear protective gloves and clothing.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a doctor.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Storage

Store in a cool dry place.

Disposal

Dispose of contents and containers in accordance with local, regional, and national regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous and non-hazardous ingredients are listed only if present at a concentration of 1% or greater (0.1% for carcinogens).

Component	CAS #	Percent Range
Water	7732-18-5	> 94%*
12.1N Hydrochloric acid	7647-01-0	< 3%*
36N Sulfuric acid	7664-93-9	< 3%*

*Specific percentages of composition are being withheld as a trade secret.

SECTION 4: FIRST – AID MEASURES**First Aid: Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

First Aid: Skin

Wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

SECTION 5: FIRE – FIGHTING MEASURES**General Fire Hazards**

A strong reaction will occur with by products that are flammable; See section 9 for Flammability Properties.

Hazardous Combustion Products

None

Extinguishing Media

Use carbon dioxide, dry chemical, or alcohol-resistant foam.

Unsuitable Extinguishing Media

DO NOT USE WATER.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear. Use water spray to keep fire-exposed containers cool. Do not get water inside containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Recovery and Neutralization**

None

Materials and Methods for Clean-Up

Soak-up with inert absorbent material. Keep in suitable closed container and hold for waste disposal. Ventilate area and wash spill site after material pick up is complete.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate attire to minimize skin contact.

Environmental Precautions

Do not allow product to enter drains.

Prevention of Secondary Hazards

None

SECTION 7: HANDLING AND STORAGE**Handling Procedures**

Wash skin thoroughly after handling.

Storage Procedures

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatibilities

Avoid contact with strong oxidizing agents, water, and aluminum, specifically aluminum foil.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Component Exposure Limits****Hydrochloric acid (7647-01-0)**

ACGIH: 2 ppm TLV

OSHA: 5 ppm PEL; 7 mg/m³ PEL

NIOSH: 50 ppm IDLH; 5 ppm IDLH; 7 mg/m³ IDLH

Quebec: 5 ppm; 7.5 mg/m³
 Mexico: 5 ppm TWA [OEL]; 7 mg/m³ TWA [OEL]
 Ontario: 2 ppm TWAEV

Sulfuric acid (7664-93-9)

ACGIH: 0.2 mg/m³ TWA
 OSHA: 1 mg/m³ PEL
 NIOSH: 15 mg/m³ IDLH
 1 mg/m³ TWA [IDLH]
 Quebec: 1 mg/m³ TWA
 3 mg/m³ STEL
 Mexico: 1 mg/m³ TWA
 Ontario: 0.2 mg/m³ TWAEV

Engineering Measures

Ensure that eyewash and safety showers are close to the workstation location. Ensure adequate ventilation.

Personal Protective Equipment: Respiratory

Use NIOSH/MSHA approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Personal Protective Equipment: Hands

Use impervious gloves.

Personal Protective Equipment: Eyes

Wear NIOSH approved safety glasses or face shield.

Personal Protective Equipment: Skin and Body

Wear lab coat to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless	Upper Flammability Limit (UFL):	ND
Physical State:	Liquid	Lower Flammability Limit (LFL):	ND
Odor:	None	Vapor Pressure:	ND
Odor Threshold:	ND	Vapor Density:	ND
pH:	≤ 2.0	Relative Density:	ND
Melting/Freezing Point:	ND	Solubility(ies):	ND
Boiling Point:	ND	Partition Coefficient (n-octanol/water):	ND
Flash Point:	ND	Auto Ignition Temperature:	ND
Evaporation Rate:	ND	Decomposition Temperature:	ND
Flammability (solid, gas):	ND	Viscosity:	ND

SECTION 10: STABILITY AND REACTIVITY**Chemical Stability**

This is stable material.

Hazardous Reaction Potential

This product reacts violently with water. Do not expose product to aluminum, specifically aluminum foil. A strong reaction will occur with by products that are flammable.

Conditions to Avoid

Avoid excess heat and exposure to moist air.

Incompatible Products

Avoid contact with strong oxidizing agents, water, and aluminum, specifically aluminum foil.

Hazardous Decomposition Products

Irritating toxic fumes and gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:**Component Analysis – LD50/LC50****Hydrochloric acid (7647-01-0)**

Oral LD50: Rat 238-277 mg/kg
Dermal LD50: Rabbit 5010 mg/kg
Inhalation LC50: Rat 1.68 mg/L 1HR

Sulfuric acid (7664-93-9)

Oral LD50: Rat 2140 mg/kg
Dermal LD50: no data available
Inhalation LC50: Rat 510 mg/m³ 2 HR

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation hazard effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity**A: General Product Information**

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity**Hydrochloric acid (7647-01-0)**

IARC: Group 3, Vol. 54 [1992] – Not classifiable as to its carcinogenicity to humans.

Sulfuric acid (7664-93-9)

IARC: Classified as “strong inorganic acid mists containing sulfuric acid.” This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

Single exposure to this product may cause respiratory irritation.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeated exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

California Proposition 65 Component Hazard**Hydrochloric acid (7647-01-0)**

Not listed

Sulfuric acid (7664-93-9)

Cancer (listed as “strong inorganic acid mists containing sulfuric acid”)

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity****A: General Product Information**

This product is not reported to have any ecotoxicity effects.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity**Hydrochloric acid (7647-01-0)****Test & Species**

96 Hr LC50 Freshwater fish

282 mg/L

Sulfuric acid (7664-93-9)**Test & Species**

96 Hr LC50 Freshwater fish

500 mg/L

24 Hr EC50 Water flea

29 mg/L

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste Disposal Instructions**

See section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Observe all local, regional, and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: TRANSPORT INFORMATION**Hydrochloric acid (7647-01-0)****UN Information****Number:** 1789**Shipping Name:** Hydrochloric Acid**Transport Hazard Class:** 8**Packing Group:** II**Environmental Hazards****Marine Pollutant:** No**Transport in Bulk:** ND**Special Precautions for User:** ND**IMDG Information****Shipping Name:** Hydrochloric Acid**Sulfuric acid (7664-93-9)****UN Information****Number:** 1830**Shipping Name:** Sulphuric Acid**Transport Hazard Class:** 8**Packing Group:** II**Environmental Hazards****Marine Pollutant:** No**Transport in Bulk:** ND**Special Precautions for User:** ND**IMDG Information****Shipping Name:** Sulphuric Acid**SECTION 15: REGULATORY INFORMATION****EU Marking & Labeling:****Symbol(s):**

None

Risk Phrases:

None

Substance Analysis – Inventory

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Water 7732-18-5	No	Yes	Yes
Hydrochloric acid 7647-01-0	Yes	Yes	Yes
Sulfuric acid 7664-93-9	No	Yes	Yes

SECTION 16: OTHER INFORMATION**Key/Legend**

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; NA = Not applicable; ND = Not determined

Literature References

Available on request.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Immuno Concepts, N.A. Ltd, shall not be held liable for any damage resulting from handling or contact with the above product.

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SECTION 1: IDENTIFICATION**Product Identifier:** PBS Buffer Powder**Recommended Use and Restrictions on Use:** For In Vitro diagnostic use only**Responsible Party:**

Name: Immuno Concepts N.A. Ltd.

Address: 9825 Goethe Road Suite 350, Sacramento, CA, 95827, USA

www.immunoconcepts.com

Technical Support: 1-800-251-5115; technicalsupport@immunoconcepts.com

SECTION 2: HAZARD(S) IDENTIFICATION**Chemical Classification(s)**

Not classified in accordance to EC No. 1272/2008

Signal Word

None

Hazard Statement(s)

None

Symbol(s)

None

Precautionary Statement(s)

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous and non-hazardous ingredients are listed only if present at a concentration of 1% or greater (0.1% for carcinogens).

Component	CAS #	Percent Range
Sodium chloride	7647-14-5	> 85%*
Sodium phosphate dibasic	7558-79-4	< 12%*
Sodium phosphate monobasic, monohydrate	10049-21-5	< 3%*

*Specific percentages of composition are being withheld as a trade secret.

SECTION 4: FIRST – AID MEASURES**First Aid: Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

First Aid: Skin

Wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

SECTION 5: FIRE – FIGHTING MEASURES**General Fire Hazards**

None; See section 9 for Flammability Properties.

Hazardous Combustion Products

Contact with acid or water may cause formation of hydrazoic acid vapor.

Extinguishing Media

Use carbon dioxide, dry chemical, water spray, or alcohol-resistant foam.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear. Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Recovery and Neutralization

None

Materials and Methods for Clean-Up

Sweep up or vacuum material. Keep in suitable closed container and hold for waste disposal. Ventilate area and wash spill site after material pick up is complete.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate attire to minimize skin contact.

Environmental Precautions

Do not allow product to enter drains.

Prevention of Secondary Hazards

None

SECTION 7: HANDLING AND STORAGE

Handling Procedures

Wash skin thoroughly after handling.

Storage Procedures

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatibilities

Avoid contact with metals, strong oxidizing agents, strong acids, bromine trifluoride, nitro compounds, dichloromaleic anhydride + urea.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

This product does not contain any substances with occupational exposure limit values.

Engineering Measures

Ensure that eyewash and safety showers are close to the workstation location. Ensure adequate ventilation.

Personal Protective Equipment: Respiratory

Use NIOSH/MSHA approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Personal Protective Equipment: Hands

Use impervious gloves.

Personal Protective Equipment: Eyes

Wear NIOSH approved safety glasses or face shield.

Personal Protective Equipment: Skin and Body

Wear lab coat to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White	Upper Flammability Limit (UFL):	ND
Physical State:	Powder	Lower Flammability Limit (LFL):	ND
Odor:	None	Vapor Pressure:	ND
Odor Threshold:	ND	Vapor Density:	ND
pH:	7.3 ± 0.2	Relative Density:	ND
Melting/Freezing Point:	ND	Solubility(ies):	ND
Boiling Point:	ND	Partition Coefficient (n-octanol/water):	ND
Flash Point:	ND	Auto Ignition Temperature:	ND
Evaporation Rate:	ND	Decomposition Temperature:	ND
Flammability (solid, gas):	ND	Viscosity:	ND

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

This is stable material; absorbs moisture or water from the air.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

High temperatures, dust generation, exposure to moist air or water.

Incompatible Products

Avoid contact with metals, strong oxidizing agents, strong acids, bromine trifluoride, nitro compounds, dichloromaleic anhydride + urea.

Hazardous Decomposition Products

Hydrogen chloride, sodium oxide

SECTION 11: TOXICOLOGICAL INFORMATION**Acute Toxicity:****Component Analysis – LD50/LC50****Sodium chloride (7647-14-5)**

Oral LD50: Mouse 4 g/kg; Rat 3 g/kg

Dermal LD50: Rabbit >10 g/kg

Inhalation LC50: Rat > 42 g/m³ 1HR

Sodium phosphate dibasic (7558-79-4)

Oral LD50: Rat 17 g/kg

Dermal LD50: no data available

Inhalation LC50: no data available

Sodium phosphate monobasic, monohydrate (10049-21-5)

No data available

Potential Health Effects: Skin Corrosion Property/Stimulativeness

May cause skin irritation.

Potential Health Effects: Eye Critical Damage/Stimulativeness

May cause eye irritation.

Potential Health Effects: Ingestion

May cause irritation of the digestive tract.

Potential Health Effects: Inhalation

May cause respiratory tract irritation.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity**A: General Product Information**

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

This product does not contain components reported to have any carcinogenic effects.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeated exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

California Proposition 65 Component Hazard

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity****A: General Product Information**

This product is not reported to have any ecotoxicity effects.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No information available for the components of this product.

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste Disposal Instructions**

See section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Observe all local, regional, and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: TRANSPORT INFORMATION**UN Information**

Number: None

Shipping Name: None

Transport Hazard Class: None

Packing Group: None

Environmental Hazards

Marine Pollutant: None

Transport in Bulk: None

Special Precautions for User: NA

IMDG Information

Shipping Name: None

SECTION 15: REGULATORY INFORMATION**EU Marking & Labeling:****Symbol(s):**

None

Risk Phrases:

None

Substance Analysis – Inventory

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Sodium chloride 7647-14-5	No	Yes	Yes
Sodium phosphate dibasic 7558-79-4	No	Yes	Yes
Sodium phosphate monobasic, monohydrate 10049-21-5	No	No	No

SECTION 16: OTHER INFORMATION**Key/Legend**

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International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; NA = Not applicable; ND = Not determined

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