

# SDS for RELISA® Single Well Screen 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.

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PBS Buffer Powder
RELISA® Wash Buffer Concentrate

1.800.251.5115 technicalsupport@immunoconcepts.com

www.immunoconcepts.com

Rev. 0.0

# **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; technical support@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.

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## **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 Upper Flammability Limit (UFL): NA

pouch with desiccant.

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.

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**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.

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# **Disposal of Contaminated Containers or Packaging**

Observe all local, regional, and national regulations.

# **SECTION 14: TRANSPORT INFORMATION**

UN InformationEnvironmental HazardsNumber:NAMarine Pollutant:NAShipping Name:NATransport in Bulk:NATransport Hazard Class:NASpecial Precautions for User:NAPacking Group:NAIMDG InformationShipping 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® ENA SWS Positive Control

RELISA® Optional ENA Undiluted Assayed Positive Control

RELISA® ENA SWS with Ro52 Calibrator

RELISA® ENA SWS Calibrator

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; technical support@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%*

<sup>\*</sup>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** 

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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**

Flammability (solid. gas): ND Appearance: Optional: Colorless Upper Flammability Limit (UFL): ND Lower Flammability Limit (LFL): ND Positive control: Green Calibrator(s): Yellow Vapor Pressure: ND Physical State: Liquid Vapor Density: ND Odor: None Relative Density: ND Odor Threshold: ND Solubility(ies): ND Partition Coefficient (n-octanol/water): **pH:**  $7.4 \pm 0.2$ ND

 Melting/Freezing Point:
 ND
 Auto Ignition Temperature:
 ND

 Boiling Point:
 ND
 Decomposition Temperature:
 ND

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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.

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## **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:NoneMarine Pollutant:NoneShipping Name:NoneTransport in Bulk:NoneTransport Hazard Class:NoneSpecial 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	No	Yes	Yes	
7732-18-5				
Bovine serum	NA	Yes	NA	
9048-46-8				

## **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

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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® 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; technical support@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%*

<sup>\*</sup>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** 

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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**

Flash Point: ND Auto Ignition Temperature: ND Evaporation Rate: ND Decomposition Temperature: ND Flammability (solid, gas): ND Viscosity: ND

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## **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** 

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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:NoneMarine Pollutant:NoneShipping Name:NoneTransport in Bulk:NoneTransport Hazard Class:NoneSpecial Precautions for User:NAPacking Group:NoneIMDG Information

Chinning Name: Nor

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	No	Yes	Yes	
7732-18-5				
Bovine serum	NA	Yes	NA	
9048-46-8				
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 =

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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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Material Name: RELISA® Enzyme Antibody Reagent Creation Date: 2015-07-29

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#### **SECTION 1: IDENTIFICATION**

Product Identifier: RELISA® ENA SWS Enzyme Antibody 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; technical support@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
StabilZyme® HRP Conjugate Stabilizer	NA	> 99%*

<sup>\*</sup>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

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Material Name: RELISA® Enzyme Antibody Reagent Creation Date: 2015-07-29

Rev. 0.0

#### 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:AmberUpper Flammability Limit (UFL):NDPhysical State:LiquidLower Flammability Limit (LFL):ND

Odor: None Vapor Pressure: ND
Odor Threshold: ND Vapor Density: ND
Policy Pressure: ND
Policy Pressure: ND
Policy Pressure: ND

pH:  $6.5 \pm 0.5$  Relative Density: ND Melting/Freezing Point: ND Solubility(ies): ND

Boiling Point: 100 °C 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**

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Material Name: RELISA® Enzyme Antibody Reagent Creation Date: 2015-07-29

Rev. 0.0

**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.

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Material Name: RELISA® Enzyme Antibody Reagent

Rev. 0.0

Creation Date: 2015-07-29

## **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:NoneMarine Pollutant:NoneShipping Name:NoneTransport in Bulk:NoneTransport Hazard Class:NoneSpecial 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
StabilZyme® HRP Conjugate Stabilizer	No	NA	Yes
Mixture - Not registered			

## **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

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Material Name: RELISA® Enzyme Antibody Reagent

Rev. 0.0

Creation Date: 2015-07-29

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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Material Name: RELISA® Sample Diluent Creation Date: 2015-07-29

Rev. 0.0

## **SECTION 1: IDENTIFICATION**

Product Identifier: 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; technical support@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	9048-46-9	< 10%*

<sup>\*</sup>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

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Material Name: RELISA® Sample Diluent Creation Date: 2015-07-29

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ND

#### 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**

Upper Flammability Limit (UFL): Appearance: Pink ND Physical State: Liquid Lower Flammability Limit (LFL): ND Odor: None Vapor Pressure: ND Odor Threshold: ND Vapor Density: ND Relative Density: ND **pH:**  $7.4 \pm 0.2$ 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:

## **SECTION 10: STABILITY AND REACTIVITY**

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Material Name: RELISA® Sample Diluent Creation Date: 2015-07-29

Rev. 0.0

**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.

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Material Name: RELISA® Sample Diluent Creation Date: 2015-07-29 Rev. 0.0

# **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: Special Precautions for User: None 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	No	Yes	Yes
7732-18-5			
Bovine serum	NA	Yes	NA
9048-46-8			

# **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

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Material Name: RELISA® Sample Diluent Creation Date: 2015-07-29
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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; technical support@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%*

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Acetone	67-64-1	< 5%*
Acetone	07-04-1	< 5%"

<sup>\*</sup>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]

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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 Upper Flammability Limit (UFL): ND

exposed to light

Physical State: Liquid Lower Flammability Limit (LFL): ND

Odor: None Vapor Pressure: ND Odor Threshold: ND Vapor Density: ND

> **pH:**  $5.95 \pm 0.05$ Relative Density: ND Solubility(ies): ND

Melting/Freezing Point: ND Partition Coefficient (n-octanol/water): ND Boiling Point: ND

Flash Point: ND Auto Ignition Temperature: ND Evaporation Rate: ND **Decomposition Temperature:** ND

Flammability (solid, gas): ND Viscosity: ND

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## **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/m<sup>3</sup> 4 HR; Rat 50100 mg/m<sup>3</sup> 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)

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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)

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 Environmental Hazards

Number:NoneMarine Pollutant:NoneShipping Name:NoneTransport in Bulk:NoneTransport Hazard Class:NoneSpecial Precautions for User:NAPacking Group:NoneIMDG Information

Shipping Name: None

## **SECTION 15: REGULATORY INFORMATION**

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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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Rev. 3.0

## **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; technical support@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%*

<sup>\*</sup>Specific percentages of composition are being withheld as a trade secret.

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## **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

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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:  $\leq 2.0$  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**

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**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/m<sup>3</sup> 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

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Material Name: RELISA® Stopping Reagent Creation Date: 2015-07-29

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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) Sulfuric acid (7664-93-9)

> **UN Information UN Information**

Number: 1789 Number: 1830

**Shipping Name:** Hydrochloric Acid **Shipping Name:** Sulphuric Acid

Transport Hazard Class: **Transport Hazard Class:** Packing Group: Ш **Packing Group:** Ш

**Environmental Hazards Environmental Hazards** 

Marine Pollutant: No Marine Pollutant: No Transport in Bulk: Transport in Bulk: ND **Special Precautions for** 

Special Precautions for User: ND ND

User:

**IMDG Information IMDG Information** 

**Shipping Name: Shipping Name:** Sulphuric Acid Hydrochloric 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	No	Yes	Yes	
7732-18-5				
Hydrochloric acid	Yes	Yes	Yes	
7647-01-0				
Sulfuric acid	No	Yes	Yes	
7664-93-9				

Immuno Concepts Page 37 of 48 Material Name: RELISA® Stopping Reagent Creation Date: 2015-07-29

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# **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; technical support@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%*

<sup>\*</sup>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

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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.

Odor: None

# 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 Threshold: ND Vapor Density: ND pH:  $7.3 \pm 0.2$  Relative Density: ND

Vapor Pressure:

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**

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## **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/m<sup>3</sup> 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.

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## **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
Sodium chloride	No	Yes	Yes
7647-14-5			
Sodium phosphate dibasic	No	Yes	Yes
7558-79-4			
Sodium phosphate monobasic, monohydrate	No	No	No
10049-21-5			

#### **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 =

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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

## **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® Wash Buffer Concentrate

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; technical support@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%*
Tween 20®	9005-64-5	< 10%*

<sup>\*</sup>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

None needed.

First Aid: Ingestion

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

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

## **Unsuitable Extinguishing Media**

None

## Fire Fighting Equipment/Instructions

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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

None needed.

# **Personal Protective Equipment: Hands**

Wear 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**

**Upper Flammability Limit (UFL):** Appearance: Colorless ND Physical State: Liquid Lower Flammability Limit (LFL): ND Odor: None Vapor Pressure: ND Odor Threshold: ND Vapor Density: ND ND Relative Density: ND pH: 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**

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**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** 

None

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** 

Component Analysis – LD50/LC50

Tween 20® (9005-64-5)

Oral LD50: Mouse > 33 g/kg; Rat 36700 uL/kg

Dermal LD50: no data available Inhalation LC50: no data available

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

Not applicable for this product.

Persistence/Degradability

No information available for the product.

Bioaccumulation

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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:NoneMarine Pollutant:NoneShipping Name:NoneTransport in Bulk:NoneTransport Hazard Class:NoneSpecial Precautions for User:NAPacking Group:NoneIMDG 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	No	Yes	Yes
7732-18-5			
Tween 20®	No	Yes	Yes
9005-64-5			

## **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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