



## **SDS for IgG Fluorescent ANA-Ro Test System**

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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[Mounting Media](#)

1.800.251.5115

[technicalsupport@immunoconcepts.com](mailto:technicalsupport@immunoconcepts.com)

[www.immunoconcepts.com](http://www.immunoconcepts.com)

**SECTION 1: IDENTIFICATION****Product Identifier:** Substrate Slide**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](http://www.immunoconcepts.com)Technical Support: 1-800-251-5115; [technicalsupport@immunoconcepts.com](mailto:technicalsupport@immunoconcepts.com)**SECTION 2: HAZARD(S) IDENTIFICATION****Chemical Classification(s)**

Not classified in accordance to EC No. 1272/2008

**Signal Word**

None

**Hazard Statement(s)**

None

**Symbol(s)**

None

**Precautionary Statement(s)**

None

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Component	CAS #	Percent Range
Desiccant	NA	NA
Glass microscope slide	NA	NA
Foil pouch	NA	NA

This product contains materials of animal origin.

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

None needed.

**First Aid: Skin**

None needed.

**First Aid: Ingestion**

None needed.

**First Aid: Inhalation**

None needed.

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

None; See section 9 for Flammability Properties.

**Hazardous Combustion Products**

None

**Extinguishing Media**

Use appropriate extinguishing media for surrounding fire.

**Unsuitable Extinguishing Media**

None

**Fire Fighting Equipment/Instructions**

Firefighters should wear full protective gear.

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

None

**Materials and Methods for Clean-Up**

Pick up or sweep 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**

Contains no substances with occupational exposure limits.

**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**

<b>Appearance:</b>	Glass slide in a foil pouch with desiccant.	<b>Upper Flammability Limit (UFL):</b>	NA
<b>Physical State:</b>	Solid	<b>Lower Flammability Limit (LFL):</b>	NA
<b>Odor:</b>	NA	<b>Vapor Pressure:</b>	NA
<b>Odor Threshold:</b>	NA	<b>Vapor Density:</b>	NA
<b>pH:</b>	NA	<b>Relative Density:</b>	NA
<b>Melting/Freezing Point:</b>	NA	<b>Solubility(ies):</b>	NA
<b>Boiling Point:</b>	NA	<b>Partition Coefficient (n-octanol/water):</b>	NA
<b>Flash Point:</b>	NA	<b>Auto Ignition Temperature:</b>	NA
<b>Evaporation Rate:</b>	NA	<b>Decomposition Temperature:</b>	NA
<b>Flammability (solid, gas):</b>	NA	<b>Viscosity:</b>	NA

**SECTION 10: STABILITY AND REACTIVITY**

**Chemical Stability**

This is stable material.

**Hazardous Reaction Potential**

Will not occur.

**Conditions to Avoid**

None

**Incompatible Products**

None

**Hazardous Decomposition Products**

None

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity:**

**Component Analysis – LD50/LC50**

Not applicable for this product.

**Potential Health Effects: Skin Corrosion Property/Stimulativeness**

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

**Potential Health Effects: Eye Critical Damage/Stimulativeness**

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

**Potential Health Effects: Ingestion**

May be harmful if swallowed.

**Potential Health Effects: Inhalation**

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

**Respiratory Organs Sensitization/Skin Sensitization**

This product is not reported to have any sensitization effects.

**Generative Cell Mutagenicity**

This product is not reported to have any mutagenic effects.

**Carcinogenicity**

**A: General Product Information**

This product is not reported to have any carcinogenic effects.

**B: Component Carcinogenicity**

Contains no 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 the product.

**Persistence/Degradability**

No information available for the product.

**Bioaccumulation**

No information available for the product.

**Mobility in Soil**

No information available for the product.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Instructions**

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

**Disposal of Contaminated Containers or Packaging**

Observe all local, regional, and national regulations.

**SECTION 14: TRANSPORT INFORMATION**

**UN Information**

**Number:** NA  
**Shipping Name:** NA

**Environmental Hazards**

**Marine Pollutant:** NA  
**Transport in Bulk:** NA

Transport Hazard Class: NA  
Packing Group: NA

Special Precautions for User: NA  
IMDG Information  
Shipping Name: NA

**SECTION 15: REGULATORY INFORMATION**

**EU Marking & Labeling:**

**Symbol(s):**

None

**Risk Phrases:**

None

**Substance Analysis – Inventory**

No information available for the product.

**SECTION 16: OTHER INFORMATION**

**Certificate of Origin**

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

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

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

**Key/Legend**

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

**Literature References**

Available on request.

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

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License granted to make unlimited paper copies for internal use only.

**SECTION 1: IDENTIFICATION**

**Product Identifier:** HEp-2000® SSA/Ro Positive Control  
 ANA Homogenous Positive Control  
 ANA Speckled Positive Control  
 ANA Nucleolar Positive Control  
 ANA Centromere Positive Control  
 ANA Titratable Control  
 ANA Negative Control  
 Optional Universal Control – SSA  
 ANA Optional Control – PCNA  
 ANA Optional Control – Scl-70  
 ANA Optional Control – Golgi  
 ANA Optional Control - Mitochondrial

**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

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Technical Support: 1-800-251-5115; [technicalsupport@immunoconcepts.com](mailto:technicalsupport@immunoconcepts.com)

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

Not classified in accordance to EC No. 1272/2008

**Signal Word**

None

**Hazard Statement(s)**

None

**Symbol(s)**

None

**Precautionary Statement(s)**

None

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

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

Component	CAS #	Percent Range
Water	7732-18-5	78 – 97%*
Base sera	NA	≤ 20%*
Bovine serum	9048-46-8	< 2 – 2%*

\*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**

Trace amounts of toxic vapors and fumes.

**Extinguishing Media**

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

**Unsuitable Extinguishing Media**

None

**Fire Fighting Equipment/Instructions**

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Recovery and Neutralization**

None

**Materials and Methods for Clean-Up**

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

**Emergency Measures**

Isolate area. Keep unnecessary personnel away.

**Personal Precautions and Protective Equipment**

Wear appropriate attire to minimize skin contact.

**Environmental Precautions**

Do not allow product to enter drains.

**Prevention of Secondary Hazards**

None

**SECTION 7: HANDLING AND STORAGE**

**Handling Procedures**

Wash skin thoroughly after handling.

**Storage Procedures**

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

**Incompatibilities**

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

**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**

<b>Appearance:</b>	Colorless, unless specified below	<b>Evaporation Rate:</b>	ND
S+ control:	Pink	<b>Flammability (solid, gas):</b>	ND
H+ control:	Green	<b>Upper Flammability Limit (UFL):</b>	ND

N+ control:	Blue	Lower Flammability Limit (LFL):	ND
ACA+ control:	Orange	Vapor Pressure:	ND
<b>Physical State:</b>	Liquid	Vapor Density:	ND
<b>Odor:</b>	None	Relative Density:	ND
<b>Odor Threshold:</b>	ND	Solubility(ies):	ND
<b>pH:</b>	7.4 ± 0.2	Partition Coefficient (n-octanol/water):	ND
<b>Melting/Freezing Point:</b>	ND	Auto Ignition Temperature:	ND
<b>Boiling Point:</b>	ND	Decomposition Temperature:	ND
<b>Flash Point:</b>	ND	Viscosity:	ND

## SECTION 10: STABILITY AND REACTIVITY

### Chemical Stability

This is stable material.

### Hazardous Reaction Potential

Will not occur.

### Conditions to Avoid

None

### Incompatible Products

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

### 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 the product.

**Persistence/Degradability**

No information available for the product.

**Bioaccumulation**

No information available for the product.

**Mobility in Soil**

No information available for the product.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Instructions**

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

**Disposal of Contaminated Containers or Packaging**

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

**SECTION 14: TRANSPORT INFORMATION**

**UN Information**

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

**Environmental Hazards**

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

**SECTION 15: REGULATORY INFORMATION**

**EU Marking & Labeling:**

**Symbol(s):**

None

**Risk Phrases:**

None

**Substance Analysis – Inventory**

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

**SECTION 16: OTHER INFORMATION**

**Certificate of Origin**

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

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

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

**Key/Legend**

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

**Literature References**

Available on request.

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

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**SECTION 1: IDENTIFICATION**

**Product Identifier:** ANA-Ro IgG (heavy chain specific) Fluorescent Antibody Reagent  
ANA-Ro IgG (heavy chain specific) Fluorescent Antibody Reagent with Counterstain

**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](http://www.immunoconcepts.com)

Technical Support: 1-800-251-5115; [technicalsupport@immunoconcepts.com](mailto:technicalsupport@immunoconcepts.com)

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

Not classified in accordance to EC No. 1272/2008

**Signal Word**

None

**Hazard Statement(s)**

None

**Symbol(s)**

None

**Precautionary Statement(s)**

None

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

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

Component	CAS #	Percent Range
Water	7732-18-5	> 95%*
Glycine Powder	56-40-6	< 3%*
Bovine serum	9048-46-8	< 2%*

\*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**

Trace amounts of toxic vapors and fumes.

**Extinguishing Media**

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

**Unsuitable Extinguishing Media**

None

**Fire Fighting Equipment/Instructions**

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Recovery and Neutralization

None

### Materials and Methods for Clean-Up

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

### Emergency Measures

Isolate area. Keep unnecessary personnel away.

### Personal Precautions and Protective Equipment

Wear appropriate attire to minimize skin contact.

### Environmental Precautions

Do not allow product to enter drains.

### Prevention of Secondary Hazards

None

## SECTION 7: HANDLING AND STORAGE

### Handling Procedures

Wash skin thoroughly after handling.

### Storage Procedures

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

### Incompatibilities

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

## 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

<b>Appearance:</b>	Colorless	<b>Upper Flammability Limit (UFL):</b>	ND
with CS Counterstain:	Blue	<b>Lower Flammability Limit (LFL):</b>	ND
<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	ND
<b>Odor:</b>	None	<b>Vapor Density:</b>	ND
<b>Odor Threshold:</b>	ND	<b>Relative Density:</b>	ND
<b>pH:</b>	7.4 ± 0.2	<b>Solubility(ies):</b>	ND
<b>Melting/Freezing Point:</b>	ND	<b>Partition Coefficient (n-octanol/water):</b>	ND
<b>Boiling Point:</b>	ND	<b>Auto Ignition Temperature:</b>	ND
<b>Flash Point:</b>	ND	<b>Decomposition Temperature:</b>	ND
<b>Evaporation Rate:</b>	ND	<b>Viscosity:</b>	ND
<b>Flammability (solid, gas):</b>	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, metals, strong acids, and strong bases.

**Hazardous Decomposition Products**

Irritating toxic fumes and gases.

**SECTION 11: TOXICOLOGICAL INFORMATION****Acute Toxicity:****Component Analysis – LD50/LC50****Glycine (56-40-6)**

Oral LD50: Mouse 4920 mg/kg; Rat 7930 mg/kg

Dermal LD50: no data available

Inhalation LC50: no data available

**Bovine serum (9048-46-8)**

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**

No information available for the components of the product.

**Persistence/Degradability**

No information available for the product.

**Bioaccumulation**

No information available for the product.

**Mobility in Soil**

No information available for the product.

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

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

**Disposal of Contaminated Containers or Packaging**

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

**SECTION 14: TRANSPORT INFORMATION****UN Information**

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

**Environmental Hazards**

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

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

None

**Risk Phrases:**

None

**Substance Analysis – Inventory**

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Water 7732-18-5	No	Yes	Yes
Glycine powder 56-40-6	No	Yes	Yes
Bovine serum 9048-46-8	NA	Yes	NA

**SECTION 16: OTHER INFORMATION****Certificate of Origin:**

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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:** 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](http://www.immunoconcepts.com)Technical Support: 1-800-251-5115; [technicalsupport@immunoconcepts.com](mailto:technicalsupport@immunoconcepts.com)**SECTION 2: HAZARD(S) IDENTIFICATION****Chemical Classification(s)**

Not classified in accordance to EC No. 1272/2008

**Signal Word**

None

**Hazard Statement(s)**

None

**Symbol(s)**

None

**Precautionary Statement(s)**

None

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

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

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

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

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

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

**First Aid: Skin**

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

**First Aid: Ingestion**

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

**First Aid: Inhalation**

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

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

None; See section 9 for Flammability Properties.

**Hazardous Combustion Products**

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

**Extinguishing Media**

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

**Unsuitable Extinguishing Media**

None

**Fire Fighting Equipment/Instructions**

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



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

None

**Materials and Methods for Clean-Up**

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

**Emergency Measures**

Isolate area. Keep unnecessary personnel away.

**Personal Precautions and Protective Equipment**

Wear appropriate attire to minimize skin contact.

**Environmental Precautions**

Do not allow product to enter drains.

**Prevention of Secondary Hazards**

None

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

Wash skin thoroughly after handling.

**Storage Procedures**

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

**Incompatibilities**

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

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

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

**Engineering Measures**

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

**Personal Protective Equipment: Respiratory**

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

**Personal Protective Equipment: Hands**

Use impervious gloves.

**Personal Protective Equipment: Eyes**

Wear NIOSH approved safety glasses or face shield.

**Personal Protective Equipment: Skin and Body**

Wear lab coat to minimize skin contact.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

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

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

**Hazardous Reaction Potential**

Will not occur.

**Conditions to Avoid**

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

**Incompatible Products**

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

**Hazardous Decomposition Products**

Hydrogen chloride, sodium oxide

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

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

Dermal LD50: Rabbit >10 g/kg

Inhalation LC50: Rat > 42 g/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.

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

This product is not reported to have any ecotoxicity effects.

**B: Component Analysis – Ecotoxicity – Aquatic Toxicity**

No information available for the components of this product.

**Persistence/Degradability**

No information available for the product.

**Bioaccumulation**

No information available for the product.

**Mobility in Soil**

No information available for the product.

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

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

**Disposal of Contaminated Containers or Packaging**

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

**SECTION 14: TRANSPORT INFORMATION****UN Information****Number:** None**Shipping Name:** None**Transport Hazard Class:** None**Packing Group:** None**Environmental Hazards****Marine Pollutant:** None**Transport in Bulk:** None**Special Precautions for User:** NA**IMDG Information****Shipping Name:** None**SECTION 15: REGULATORY INFORMATION****EU Marking & Labeling:****Symbol(s):**

None

**Risk Phrases:**

None

**Substance Analysis – Inventory**

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

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

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.

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**SECTION 1: IDENTIFICATION****Product Identifier:** Mounting Media**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](http://www.immunoconcepts.com)Technical Support: 1-800-251-5115; [technicalsupport@immunoconcepts.com](mailto:technicalsupport@immunoconcepts.com)**SECTION 2: HAZARD(S) IDENTIFICATION****Chemical Classification(s)**

Not classified in accordance to EC No. 1272/2008

**Signal Word**

None

**Hazard Statement(s)**

None

**Symbol(s)**

None

**Precautionary Statement(s)**

None

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

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

Component	CAS #	Percent Range
Glycerol	56-81-5	< 80%*
Water	7732-18-5	< 20%*
DABCO®	280-57-9	1%

\*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**

None

**Extinguishing Media**

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

**Unsuitable Extinguishing Media**

None

**Fire Fighting Equipment/Instructions**

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Recovery and Neutralization**

None

**Materials and Methods for Clean-Up**

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

**Emergency Measures**

Isolate area. Keep unnecessary personnel away.

**Personal Precautions and Protective Equipment**

Wear appropriate attire to minimize skin contact.

**Environmental Precautions**

Do not allow product to enter drains.

**Prevention of Secondary Hazards**

None

**SECTION 7: HANDLING AND STORAGE**

**Handling Procedures**

Wash skin thoroughly after handling.

**Storage Procedures**

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

**Incompatibilities**

Avoid contact with strong oxidizing agents.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

**Glycerol (56-81-5)**

- OSHA: 5 mg/m<sup>3</sup> TWA; 15 mg/m<sup>3</sup> TWA
- Quebec: 10 mg/m<sup>3</sup>
- Mexico: 10 mg/m<sup>3</sup> TWA [OEL]
- Ontario: 10 mg/m<sup>3</sup> TWAEV

**DABCO® (280-57-9)**

No 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**

<b>Appearance:</b>	Colorless	<b>Upper Flammability Limit (UFL):</b>	ND
<b>Physical State:</b>	Liquid	<b>Lower Flammability Limit (LFL):</b>	ND
<b>Odor:</b>	None	<b>Vapor Pressure:</b>	ND
<b>Odor Threshold:</b>	ND	<b>Vapor Density:</b>	ND
<b>pH:</b>	9.5 ± 0.3	<b>Relative Density:</b>	ND
<b>Melting/Freezing Point:</b>	ND	<b>Solubility(ies):</b>	ND
<b>Boiling Point:</b>	ND	<b>Partition Coefficient (n-octanol/water):</b>	ND
<b>Flash Point:</b>	ND	<b>Auto Ignition Temperature:</b>	ND
<b>Evaporation Rate:</b>	ND	<b>Decomposition Temperature:</b>	ND
<b>Flammability (solid, gas):</b>	ND	<b>Viscosity:</b>	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**

None

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity:**

**Component Analysis – LD50/LC50**

**Glycerol (56-81-5)**

Oral LD50: Rat 12600 mg/kg

Dermal LD50: Rabbit 10 g/kg

Inhalation LC50: Rat 570 mg/m<sup>3</sup> 1HR

**DABCO® (280-57-9)**

Oral LD50: Rat 1700 mg/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**

**Glycerol (56-81-5)**

**Test & Species**

96 Hr LC50 Freshwater fish 51-57 mL/L  
>24 Hr EC50 Water flea 500 mg/L

**DABCO® (280-57-9)**

**Test & Species**

96 Hr LC50 Flathead minnow 1730 mg/L  
48 Hr EC50 Water flea 92 mg/L

**Persistence/Degradability**

No information available for the product.

**Bioaccumulation**

No information available for the product.

**Mobility in Soil**

No information available for the product.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Instructions**

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

**Disposal of Contaminated Containers or Packaging**

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

**SECTION 14: TRANSPORT INFORMATION**

**UN Information**

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

**Environmental Hazards**

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

**SECTION 15: REGULATORY INFORMATION**

**EU Marking & Labeling:**

**Symbol(s):**

None

**Risk Phrases:**

None

**Substance Analysis – Inventory**

Component/CAS#	Listed		
	OSHA	CAN DSL	TSCA
Glycerol 56-81-5	No	Yes	Yes
Water 7732-18-5	No	Yes	Yes
DABCO® 280-57-9	No	Yes	Yes

**SECTION 16: OTHER INFORMATION**

**Key/Legend**

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA =



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

**Literature References**

Available on request.

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