#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

### **KIT**

#### I INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

#### 1.1 **Product identifier**

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

Kit Components: Tracer

Calibrator Control

Enzymatic Inhibitor Wash Solution

#### 1.2 <u>Intended Use</u>

For In Vitro Diagnostic Use. See product literature for details.

#### 1.3 Company

DIAsource ImmunoAssays S.A. Rue du Bosquet, 2 B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: tech.support@diasource.be

#### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

#### 2 TRANSPORT INFORMATION

According to ADR and IATA (Chapter 10.3.1) regulations, shipment below the exemption quantity (1 MBq for Iodine 125) are considered as not dangerous goods. If the shipment exceed this quantity, please refer to the information given below:

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>UN/ID Number</b>	2910	2910	2910	2910	2910
<b>Shipping Name</b>	Radioactive Materi	al, excepted package	-limited quantity of m	naterial	
Hazard Class	7 Radioactive Material	7 Radioactive Material	7 Radioactive Material	7 Radioactive Material	7 Radioactive Materials
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	None	Not applicable
Packing Group Special Provisions	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Additional Information IATA ERG Code EmS	7L Not applicable	Not applicable F-I, S-S	Not applicable Not applicable	Not applicable Not applicable	Not applicable Not applicable

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

NAERG Code Not applicable Not applicable 161 Not applicable 161

Environmental

**Hazard**Marine Polluant

Printing date

3/01/20

Not applicable

No Not app

Not applicable Not applicable

Not applicable

**Special Precautions for users :** No special precautions for users are required.

### 3 OTHER INFORMATION

### 3.1 <u>Labeling of tube:</u>

Each tube can only be used once



## 1 Source

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

### **TRACER**

#### INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

#### 1.1 **Product identifier**

Product Name: Tracer

Catalog #: Component of KIPB3518

#### 1.2 **Intended Use**

For In Vitro Diagnostic Use. See product literature for details.

#### 1.3 Company

DIAsource ImmunoAssays S.A. Rue du Bosquet, 2 B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: tech.support@diasource.be

#### 1.4 **Emergency telephone**

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

#### HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**Product Description** Yellow; Clear; Liquid; Odorless

Classification according to EC 1272/2008

(CLP/GHS)

Skin Sensitization Category 1

Classification according to US-OSHA

Not classified as hazardous per US-OSHA HCS 2012

(HCS 29 CFR 1910.1200) and UN GHS

and UN GHS



(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 2.2 Label elements

#### 2.2.1 According to EC 1272/2008 (CLP/GHS)

#### **Hazardous Ingredients**

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

#### **Pictogram**



### Signal Word

**WARNING** 

#### **Hazard Statements**

H317 May cause an allergic skin reaction.

#### **Precautionary Statements**

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before use.

P501 Dispose of contents/container in accordance with local/national regulations

#### Radioactive



Printing date

#### 2.3 Other hazards

Results of PBT and vPvB assessment

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PBT: Not applicable. vPvB: Not applicable.

Iodine-125 is a gamma-rays and X-rays emitter. Radiation can be protected by 1mm of lead. Half-life: 59.4 days.

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:		Hazard Classification of Pure Ingredients		
Chemical Name	% by wt.	EU 1272/2008 CLP/GHS	GHS	
reaction mass of: 5-	< 0.05	Acute Tox. Dermal 3	Acute Tox. Dermal 3	
chloro-2-methyl-4-		Acute Tox. Inhal. 3	Acute Tox. Inhal. 3	
isothiazolin-3-one		Acute Tox. Oral 3	Acute Tox. Oral 3	
[EC# 247-500-7] and		Aquatic Acute 1	Aquatic Acute 1	
2-methyl-4-		Aquatic Longterm 1	Aquatic Longterm 1	
isothiazolin-3-one		Skin Corr. 1B	Skin Corr. 1B	
[EC# 220-239-6](3:1)		Skin Sens. 1	Skin Sens. 1	
		H301; H311; H314; H317; H331;	H301; H311; H314; H317; H331;	
CAS # 55965-84-9		H400; H410	H400; H410	
EINECS# Not available				
Index # Not available				

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

#### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, rinse eyes gently with water as a precaution.

**Skin Contact** In case of skin contact, rinse with water as a precaution.

**Ingestion** If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain

medical attention immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

May produce an allergic reaction in some people.

See Section 11 Toxicological Information for more detailed health information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

#### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

**Special Fire and Explosion Hazards:** No special Hazards determined.

**Hazardous Combustion Products:** No Combustible products posing significant hazards are expected from this product (a aqueous solution).

#### 5.3 Advice for fire fighters

**Protective Equipment:** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 5.4 Additional information

No further relevant information available.

#### 6 ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precaution, protective equipment and emergency procedures

**Personal Precautions:** This product contains material of human and animal origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.

Wear protective gloves, protective clothing and eye/face protection.

#### **Environmental Precautions**

Isolate area and absorb spill with sand, vermiculite or other inert absorbent material. Place absorbed material in container suitable for disposal.

Do not allow the undiluted product to enter sewers/surface or ground water.

Dispose of all waste material in accordance with local and facility guidelines.

#### 6.3 Methods and material for containment and cleaning-up

**Spill and Leak Procedures:** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

Radioactive material is subject to the regulations of each country.

Dispose of all waste material in accordance with local guidelines.

#### 6.4 Reference to other sections

Refer sections 8 and 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

#### 7.3 Specific end uses

No further relevant information available.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 <u>Control parameters</u>

**Exposure Limits** 

US OSHA

ACGIH

None established

DFG MAK

Ireland

None established

None established

None established

None established

None established

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

NIOSH None established Japan None established

8.2 Exposure controls

**Engineering Controls** 

**Eye Protection** 

**Physical State** 

Place vial behind a metal shield, away from the user.

Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

**Skin Protection** Impervious gloves, such as Nitrile or equivalent, should be worn to

prevent skin contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or

appropriate government standards.

**Respiratory Protection** Under normal conditions, the use of this product should not require

respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the

Specific Gravity (water = 1.0)

1.005 @20°C

use of respiratory protection should be evaluated by a qualified

professional.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 <u>Information on basic physical and chemical properties</u>

Liquid

Color	Yellow	Solubility:	
Transparency	Clear	Water	Miscible
Odor	Odorless	Organic	Not applicable
рH	7.2	Coefficien of Water/Oil	Not determined
-		Distribution	
Freezing Point	Not determined	Autoignition Temp.	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
Flash Point	Not applicable	Percent Volatiles	Not determines
<b>Evaporate Rate</b>	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammable Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not determined
Odor threshold	Not applicable		

#### 9.2 Other information

No further relevant information available.

#### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No further relevant information available.

#### **10.2** Chemical Stability

The product is stable in accordance with recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No further relevant information available.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 10.4 Conditions to Avoid

To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.

#### 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

#### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

### **Toxicity Data for Hazardous**

**Ingredients** 

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

CAS # 55965-84-9

Oral LD50 Rat 53mg/kg

**Primary Routes of Exposure** 

Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

Acute Toxicity
Skin Corrosion/Irritation
Serious eye damage/eye irritation

Respiratory/skin sensitization

Carcinogenicity

Not classified based on available data. Not classified based on available data. Not classified based on available data. May cause an allergic skin reaction.

This product does not contain a reportable concentration ( $\geq$  0.1%) of any ingredient listed as carcinogen by ACGIH,

IARC, NTP, OSHA or 1272/2008 EC regulation.

Germ cell mutagenicity Reproductive Toxicity

 ${\bf Specific\ target\ organ\ toxicity\ -\ single}$ 

exposure

Specific target organ toxicity -

repeated exposure Aspiration hazard Other information Not classified based on available data.

This product contains materials of human and animal origin and should be considered as potentially capable of

transmitting infectious diseases.

#### 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fresh Water SpeciesNo information availableMicrotoxNo information availableWater FleaNo information availableFresh Water AlgaeNo information available

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#### 12.2 Persistence and degradability

Not determined for the product.

#### 12.3 Bioaccumulation

Not determined for the product.

#### 12.4 Mobility in soil

Not determined for the product.

#### 12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

#### 12.6 Other adverse effects

No further relevant information available.

#### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### **Product Waste Disposal:**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or and approved waste-disposal company for information.

#### Package disposal:

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Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

#### 13.2 Additional Information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### TRANSPORT INFORMATION

According to ADR and IATA (Chapter 10.3.1) regulations, shipment below the exemption quantity (1 MBq for Iodine 125) are considered as not dangerous goods. If the shipment exceed this quantity, please refer to the information given below:

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>UN/ID Number</b>	2910	2910	2910	2910	PIN - 2910
<b>Shipping Name</b>	Radioactive Mater	ial, excepted package	-limited quantity of n	naterial	
Hazard Class	7 Radioactive Material	7 Radioactive Material	7 Radioactive Material	7 Radioactive Material	7 Radioactive Materials
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	None	Not applicable
Packing Group					
Special Provisions	Not applicable				
Additional Information					
IATA ERG Code	7L	Not applicable	Not applicable	Not applicable	Not applicable
EmS	Not applicable	F-I, S-S	Not applicable	Not applicable	Not applicable
NAERG Code	Not applicable	Not applicable	161	Not applicable	161
Environmental Hazard					
Marine Polluant	Not applicable	No	Not applicable	Not applicable	Not applicable

**Special Precautions for user:** No special precautions for users are required.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

#### **REGULATORY INFORMATION 15**

### 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

**Us Federal and State Regulations** 

**SARA 313 CERCLA** (The Comprehensive

**Environmental Response**,

Compensation and Liability Act) 40

**CFR 302.4** 

California Proposition 65

No ingredients listed No ingredients listed

WARNING: This product can expose you to chemical which is known to the State of California to cause cancer and/or harm.

For more information, go to www.P65Warnings.ca.gov

Iodine 125 (CAS # 14158-31-7)

Chemical which is known to the State of

California to cause cancer

Chemical which is known to the State of No ingredients listed California to cause development

toxicity

Chemical which is known to the State of No ingredients listed California to cause male reproductive

toxicity

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Chemical which is known to the State of No ingredients listed

California to cause female reproductive

toxicity

Massachusetts MSL
New Jersey Dept. of Health RTK List
Pennsylvania RTK
No ingredients listed
No ingredients listed
No ingredients listed

#### **EU regulations**

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) REACH 1907/2006 EC - Annex XIV -

No ingredients listed.

WGK 1, low water endangering

list of substances subject to authorization

#### Canada

This product is exempt from WHMIS label and SDS requirements.

#### 15.2 <u>Chemical Safety Assessment</u>

A Chemical Safety Assessment has not been carried out..

Some hazardous ingredients listed in Section 15 are below the cutoff of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

#### 16 OTHER INFORMATION

	Flammability: 0 Health: 2 Reactivity with water: 1 Contact: 2	Code
DIAsource ImmunoAssays Safety	Health: 2	U = None 1 - Slight
Rating	Reactivity with water: 1	2 = Caution
	Contact: 2	3 = Severe

#### Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Dermal 3 - Acute Toxicity Dermal, Category 3

Acute Tox. Inhal. 3 - Acute Toxicity Inhalation, Category 3

Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

Skin Corr. 1B - Skin Corrosion Category 1B

Skin Sens. 1 - Skin Sensitization Category 1

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H331 - Toxic if inhaled.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

#### **Abbreviations and Acronyms**

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

ACGIH - American Conference of Governmental Industrial Hygienists

ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA DGR - International Air Transport Association Dangerous Goods Regulation

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

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OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

#### **Notification:**

English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

### **CALIBRATOR**

#### 1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

#### 1.1 Product identifier

Product Name: Calibrator

Catalog #: Component of KIPB3518

#### 1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

#### 1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: tech.support@diasource.be

#### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

#### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Product Description** Mixture

Colorless to pale yellow; Clear; Liquid; Odorless

Classification according to EC 1272/2008

Not classified as hazardous per EC 1272/2008

(CLP/GHS)

(CLP/GHS)

Not classified as hazardous per US-OSHA HCS 2012

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

and UN GHS

#### 2.2 <u>Label elements</u>

#### 2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Not classified as hazardous per EC 1272/2008 (CLP/GHS).

 $\underline{\textbf{Tube}}$ : each tube can only be used once



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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixture**

Hazardous Ingredients:		Hazard Classification of Pure Ingredients		
Chemical Name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Sodium Azide CAS # 226628-22-8 EINECS# 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	2,8

<sup>2 -</sup> Substance with Community workplace exposure limits

See section 8 for available Occupational exposure limits See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

#### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, rinse eyes gently with water as a precaution.

**Skin Contact** In case of skin contact, rinse with water as a precaution.

**Ingestion** If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain

medical attention immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

### 4.3 <u>Indication of any immediate medical attention and special treatment needed</u>

No specific medical attention or treatment required.

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<sup>8 -</sup> Present at concentration below the cut-off limits.



(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined

**Hazardous Combustion Products:** No combustion products posing significant hazards are expected from this product (a aqueous solution)

#### 5.3 Advice for fire fighters

**Protective Equipment:** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

#### 5.4 Additional information

No further relevant information available.

#### 6 ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precaution, protective equipment and emergency procedures

**Personal Precautions:** This product contains material of human and animal origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.

Wear protective gloves, protective clothing and eye/face protection.

#### **Environmental Precautions**

Contain spill to prevent migration.

Do not allow the undiluted product to enter sewers/surface or ground water.

Dispose of contents/container in accordance with local regulations

#### 6.3 Methods and material for containment and cleaning-up

**Spill and Leak Procedures:** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

#### 6.4 Reference to other sections

Refer sections 8 and 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

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This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

### Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

#### Specific end uses 7.3

No further relevant data available.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 **Control parameters**

**Exposure Limits** 

**US OSHA** None established

0.29 mg/m<sup>3</sup> Ceiling (as NaN<sub>3</sub>); 0.11 ppm Ceiling (as Hydrazoic acid) ACGIH

Sodium Azide

CAS# 26628-22-8

0.4 mg/m<sup>3</sup> Peak (inhalable fraction); 0.2 mg/m<sup>3</sup> TWA MAK **DFG MAK** 

(inhalable fraction) Sodium Azide

CAS# 26628-22-8

0.1 mg/m<sup>3</sup> TWA (as NaN<sub>3</sub>); 0.3 mg/m<sup>3</sup> STEL; Potential for cutaneous **Ireland** 

Sodium Azide absorption

CAS# 26628-22-8

**IOELVs** Possibility of significant uptake through the skin; 0.1 mg/m<sup>3</sup> TWA;

Sodium Azide  $0.3 \text{ mg/m}^3 \text{ STEL}$ 

CAS# 26628-22-8

**NIOSH** None established None established Japan

#### 8.2 **Exposure controls**

**Engineering Controls** No special engineering controls are required. Use with good general

ventilation.

**Eye Protection** Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

**Skin Protection** 

Wear protective clothing and impervious gloves, as appropriate. **Respiratory Protection** Under normal conditions, the use of this product should not require

respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the

use of respiratory protection should be evaluated by a qualified

professional.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Physical State Liquid Specific Gravity (water = 1.0) 1.00-1.01 @  $20^{\circ}$ C

**Color** Colorless to **Solubility:** 

pale yellow

TransparencyClearWaterMiscibleOdorOdorlessOrganicNot determinedpH7.2Coefficien of Water/OilNot determined

Distribution

**Freezing Point** Not determined **Autoignition Temp.** Not applicable **Boiling Point** Not determined **Decomposition Temperature** Not determined **Flash Point** Not applicable **Percent Volatiles** Not determines **Evaporate Rate** Not determined Vapor Pressure Not determined Flammability (Solid, Gas) Not applicable Viscosity Not determined **Flammable Limits** Not determined **Explosive Properties** Not applicable **Oxidizing Properties** Not determined **Vapor Density** Not determined **Odor threshold** Not applicable

#### 9.2 Other information

No further relevant information available.

#### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No further relevant information available.

#### **10.2** Chemical Stability

The product is stable in accordance with recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

#### 10.4 Conditions to Avoid

Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.

#### 10.5 Incompatible materials

Metals and metallic compounds.

#### 10.6 Hazardous Decomposition Products

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No decomposition products posing significant hazards would be expected from this product (a aqueous solution).

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Toxicity Data for Hazardous**Oral LD50 Rat 27 mg/kg **Ingredients**Dermal LD50 Rabbit 20 mg/kg

Sodium Azide CAS# 26628-22-8

**Primary Routes of Exposure**Common routes of entry include inhalation, ingestion and

eye/skin contact.

Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

Acute Toxicity

Skin Corrosion/Irritation

Serious eye damage/eye irritation

Respiratory/skin sensitization

Not classified based on availability data.

Not classified based on availability data.

Not classified based on availability data.

Carcinogenicity No ingredients in this product are listed as carcinogens by

ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

**Germ cell mutagenicity Reproductive Toxicity**Not classified based on availability data.

Not classified based on availability data.

Not classified based on availability data.

Not classified based on availability data.

exposure

Specific target organ toxicity –

repeated exposure

**Aspiration hazard** Not classified based on availability data.

Other information This product contains materials of human and animal

origin and should be considered as potentially capable of

transmitting infectious diseases.

Not classified based on availability data.

#### 12 ECOLOGICAL INFORMATION

#### 12.1 <u>Ecotoxicity</u>

**Fresh Water Species**96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Sodium Azide
Lepomis macrochirus: 0.7 mg/L; 96 h LC50 Pimephales

CAS# 26628-22-8 promelas: 5.46 mg/L [flow-through]

MicrotoxNo information availableWater FleaNo information availableFresh Water AlgaeNo information available

#### 12.2 Persistence and degradability

Not determined for the product.

#### 12.3 Bioaccumulation

Not determined for the product.

#### 12.4 Mobility in soil

Not determined for the product.

#### 12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

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2 rue du Bosquet



(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 12.6 Other adverse effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

#### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### **Product Waste Disposal:**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or and approved waste-disposal company for information.

#### Package disposal:

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

#### 13.2 Additional Information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

#### 14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

#### 14.1 UN/ID Number

Not regulated for transportation

#### 14.2 **Shipping Name**

Not regulated for transportation

#### 14.3 Hazard Class

Not regulated for transportation

#### 14.4 Packing Group

Not regulated for transportation

#### 14.5 Environmental Hazards

Not regulated for transportation

3/01/20

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 14.6 **Special Precautions for user**

None

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

#### 15 **REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

**Us Federal and State Regulations** 

**SARA 313** Sodium Azide (CAS #: 26628-22-8)

1.0% de minimis concentration

**CERCLA** (The Comprenhensive Response, Compensation and Liability Act) 40 CFR 302.4

California Proposition 65

Sodium Azide (CAS #: 26628-22-8)

**WARNING:** This product can expose you to chemical which is known to the State of California to cause cancer and/or harm. For more information, go to www.P65Warnings.ca.gov

Chemical which is known to the State of

California to cause cancer

No ingredients listed

Chemical which is known to the State of Neomycin (CAS # 1404-04-2)

California to cause development

toxicity

Chemical which is known to the State of

California to cause male reproductive

toxicity

No ingredients listed

No ingredients listed

Chemical which is known to the State of

California to cause female reproductive

toxicity

Sodium Azide (CAS #: 26628-22-8) Massachusetts MSL New Jersey Dept. of Health RTK List Sodium Azide (CAS #: 26628-22-8) Pennsylvania RTK Sodium Azide (CAS #: 26628-22-8)

### **EU** regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV -No ingredients listed.

list of substances subject to

authorization

**According to EC Directives** Not classified as dangerous per EC Directives

(1999/45/EC and 67/548 EEC) (1999/45/EC and 67/548 EEC)

#### **Canada**

This product is exempt from WHMIS label and SDS requirements.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below the cutoff of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 16 OTHER INFORMATION

DIAsource ImmunoAssays Safety Rating Flammability: 0 Health: 1

Reactivity with water: 0 Contact: 1

Code 0 = None 1 = Slight 2 = Caution

3 =Severe

#### Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

H300 - Fatal if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

#### **Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists

ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA DGR - International Air Transport Association Dangerous Goods Regulation

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

#### **Notification:**

English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

### **CONTROL**

#### 1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

#### 1.1 Product identifier

Product Name: Control

Catalog #: Component of KIPB3518

#### 1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

#### 1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: tech.support@diasource.be

#### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

#### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Product Description** Mixture

Colorless to pale yellow; Clear; Liquid; Odorless

Classification according to EC 1272/2008 Not classified as hazardous per EC 1272/2008

(CLP/GHS) (CLP/GHS)

Classification according to US-OSHA Not classified as hazardous per US-OSHA HCS 2012

(HCS 29 CFR 1910.1200) and UN GHS and UN GHS

#### 2.2 <u>Label elements</u>

### 2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Not classified as hazardous per EC 1272/2008 (CLP/GHS), US-OSHA and GHS.

#### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

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#### N (.

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Hazardous Ingre	dients:	Hazard Classification of Pure Ingredients		
Chemical Name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Sodium Azide CAS # 226628-22-8 EINECS# 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	2,8
2 - Substance with Community workplace exposure limits				

<sup>8 -</sup> Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

#### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, rinse eyes gently with water as a precaution.

**Skin Contact** In case of skin contact, rinse with water as a precaution.

**Ingestion** If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain

medical attention immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

#### 5 FIRE FIGHTING MEASURES

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#### 5.1 Extinguishing media

In case of fire use carbon dioxide (CO<sub>2</sub>), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.

#### 5.2 **Special hazards arising from the substance or mixture**

Special Fire and Explosion Hazards: No special hazards determined



(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

**Hazardous Combustion Products:** No combustion products posing significant hazards are expected from this product (an aqueous solution).

#### 5.3 Advice for fire fighters

**Protective Equipment:** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

#### 5.4 Additional information

No further relevant information available.

#### 6 ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precaution, protective equipment and emergency procedures

**Personal Precautions:** This product contains material of human and animal origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.

Wear protective gloves, protective clothing and eye/face protection.

#### **6.2** Environmental Precautions

Contain spill to prevent migration.

Do not allow the undiluted product to enter sewers/surface or ground water.

Dispose of contents/container in accordance with local regulations

#### 6.3 Methods and material for containment and cleaning-up

**Spill and Leak Procedures:** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

#### **Reference to other sections**

Refer sections 8 and 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

#### 7.3 Specific end uses

No further relevant information available.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Exposure Limits** 

US OSHA None established

**ACGIH** 0.29 mg/m<sup>3</sup> Ceiling (as NaN<sub>3</sub>); 0.11 ppm Ceiling (as Hydrazoic acid)

Sodium Azide (vapor)

CAS# 26628-22-8

**DFG MAK** 0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK

Sodium Azide (inhalable fraction)

CAS# 26628-22-8 (Hillarable Haction

**Ireland** 0.1 mg/m³ TWA (as NaN<sub>3</sub>); 0.3 mg/m³ STEL (as NaN<sub>3</sub>); Potential for

Sodium Azide cutaneous absorption

CAS# 26628-22-8

**IOELVs** Possibility of significant uptake through the skin; 0.3 mg/m<sup>3</sup> TWA;

Sodium Azide 0.1 mg/m<sup>3</sup> STEL

CAS# 26628-22-8

NIOSH None established Japan None established

Sweden 0.1 mg/m³ TLV; 0.3 mg/m Binding STEL

Sodium Azide CAS# 26628-22-8

8.2 Exposure controls

**Engineering Controls** No special engineering controls are required. Use with good general

ventilation.

**Eye Protection** Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

**Skin Protection** Wear protective clothing and impervious gloves, as appropriate.

**Respiratory Protection** Under normal conditions, the use of this product should not require

respiratory protection.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 <u>Information on basic physical and chemical properties</u>

Physical State Liquid Specific Gravity (water = 1.0) 1.00-1.01 @  $20^{\circ}$ C

**Color** Colorless to **Solubility:** 

pale yellow

Transparency Clear Water Miscible

Odor Odorless Organic Not determined 7.2 Coefficien of Water/Oil Not determined

Distribution

**Freezing Point** Not determined Autoignition Temp. Not applicable **Boiling Point** Not determined **Decomposition Temperature** Not determined **Flash Point** Not applicable **Percent Volatiles** Not determined Not determined Vapor Pressure **Evaporate Rate** Not determined Flammability (Solid, Gas) Not applicable Viscosity Not determined **Flammable Limits** Not determined **Explosive Properties** Not applicable

Vapor Density Not determined Odor threshold Not applicable

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**Oxidizing Properties** 

Not determined

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

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Catalog #: KIPB3518

#### 9.2 Other information

No further relevant information available.

#### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No further relevant information available.

#### 10.2 Chemical Stability

The product is stable in accordance with recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

#### 10.4 Conditions to Avoid

Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.

#### 10.5 Incompatible materials

Metals and metallic compounds

#### 10.6 <u>Hazardous Decomposition Products</u>

No decomposition products posing significant hazards would be expected from this product (a aqueous solution).

#### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Toxicity Data for Hazardous**Ingredients
Dermal LD50 Rabbit 20 mg/kg
Oral LD50 Rat 27 mg/kg

Sodium Azide CAS# 26628-22-8

**Primary Routes of Exposure**Common routes of entry include inhalation, ingestion and

eye/skin contact.

Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

Acute ToxicityNot classified based on available data.Skin Corrosion/IrritationNot classified based on available data.Serious eye damage/eye irritationNot classified based on available data.Respiratory/skin sensitizationNot classified based on available data.

Carcinogenicity No ingredients in this product are listed as carcinogens by

ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

**Germ cell mutagenicity Reproductive Toxicity**Not classified based on available data.

Not classified based on available data.

Not classified based on available data.

Not classified based on available data.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

exposure

Specific target organ toxicity -

repeated exposure Aspiration hazard Other information Not classified based on available data.

Not classified based on available data.

This product contains materials of human and animal origin and should be considered as potentially capable of

transmitting infectious diseases.

#### 12 ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

Fresh Water Species 96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Sodium Azide Lepomis macrochirus:0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [flow-through]

MicrotoxNo information availableWater FleaNo information availableFresh Water AlgaeNo information available

#### 12.2 Persistence and degradability

Not determined for the product.

#### 12.3 Bioaccumulation

Not determined for the product.

#### 12.4 Mobility in soil

Not determined for the product.

#### 12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

#### 12.6 Other adverse effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### **Product Waste Disposal:**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or and approved waste-disposal company for information.

#### Package disposal:

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

#### 13.2 Additional Information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

#### 14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

#### 14.1 UN/ID Number

Not regulated for transportation

#### 14.2 **Shipping Name**

Not regulated for transportation

#### 14.3 Hazard Class

Not regulated for transportation

#### 14.4 Packing Group

Not regulated for transportation

#### 14.5 Environmental Hazards

Not regulated for transportation

#### 14.6 Special Precautions for user

None

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

#### 15 REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

**Us Federal and State Regulations** 

SARA 313 Sodium Azide (CAS #: 26628-22-8) 1.0% de minimis concentration

Sodium Azide (CAS #: 26628-22-8)

CERCLA (The Comprenhensive Response, Compensation and Liability Act) 40 CFR 302.4 California Proposition 65

**WARNING:** This product can expose you to chemical which is known to the State of California to cause cancer and/or harm.

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

For more information, go to www.P65Warnings.ca.gov

Chemical which is known to the State of No ingredients listed

California to cause cancer

Chemical which is known to the State of Neomycin (CAS # 1404-04-2)

California to cause development

toxicity

Chemical which is known to the State of No ingredients listed California to cause male reproductive

toxicity

Chemical which is known to the State of No ingredients listed

California to cause female reproductive

toxicity

Massachusetts MSL New Jersey Dept. of Health RTK List Pennsylvania RTK

Sodium Azide (CAS #: 26628-22-8) Sodium Azide (CAS #: 26628-22-8) Sodium Azide (CAS #: 26628-22-8)

#### **EU** regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

**REACH 1907/2006 EC - Annex XIV -** No ingredients listed. list of substances subject to authorization

#### **Canada**

This product is exempt from WHMIS label and SDS requirements.

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below the cutoff of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

### OTHER INFORMATION

Code Flammability: 0 0 = None**DIAsource ImmunoAssays Safety** Health: 1 1 = SlightReactivity with water: 0 **Rating** 2 = CautionContact: 1 3 = Severe

#### Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

H300 - Fatal if swallowed.

Printing date

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

### **Abbreviations and Acronyms**

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### MA'

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

ACGIH - American Conference of Governmental Industrial Hygienists

ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA DGR - International Air Transport Association Dangerous Goods Regulation

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

3/01/20

Printing date

LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

#### **Notification:**

English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

### **ENZYMATIC INHIBITOR**

#### 1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

#### 1.1 Product identifier

Product Name: Enzymatic Inhibitor

Catalog #: Component of KIPB3518

#### 1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

#### 1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: tech.support@diasource.be

#### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

#### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Product Description** Mixture

Yellow; Clear; Lyophilized - Liquid after

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reconstitution; Odorless

Classification according to EC 1272/2008

(CLP/GHS)

Skin Sensitization Category 1

Classification according to US-OSHA

(HCS 29 CFR 1910.1200) and UN GHS

Skin Sensitization Category 1

Toxic to Reproductivity Category 1

#### 2.2 <u>Label elements</u>

#### 2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

### **Hazardous Ingredients**

8-Hydroxyquinoline

**Pictogram** 



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### A. Courses

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

### **Signal Word** DANGER

#### **Hazard Statements**

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

#### **Precautionary Statements**

P201 Obtain special instructions before use.

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before use.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulations

#### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

See Section 11 Toxicological Information for more detailed health information.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixture**

Hazardous Ingredients:		Hazard Classification of Pure Ingredients		
Chemical Name % by wt.		EU 1272/2008 CLP/GHS	GHS	Note
8-Hydroquinoline CAS # 148-24-3 EINECS# 208-711-1 Index # Not available	0.1 – 0.2	Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 M-factor=1 Repr. 1B, H360 Skin Sens. 1, H317	Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 Repr. 1B, H360 Skin Sens. 1, H317	
Sodium Azide CAS # 226628-22-8 EINECS# 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	2,8

<sup>2 -</sup> Substance with Community workplace exposure limits

 $See\ section\ 8\ for\ available\ Occupational\ exposure\ limits$ 

See Section 15 for additional regulatory information

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See Section 16 for hazard class, hazard statements and risk phrase description

<sup>8 -</sup> Present at concentration below the cut-off limits.

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, rinse eyes gently with water as a precaution.

**Skin Contact** In case of skin contact, rinse with water as a precaution.

**Ingestion** If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain

medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

May damage fertility or the unborn child.

May cause an allergic skin reaction.

See Section 11 Toxicological Information for more detailed health information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available. Refer to Section 4.1.

#### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined

**Hazardous Combustion Products:** No combustion products posing significant hazards are expected from this product (an aqueous solution).

#### 5.3 Advice for fire fighters

**Protective Equipment:** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

#### 5.4 Additional information

No further relevant information available.

#### 6 ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precaution, protective equipment and emergency procedures

**Personal Precautions:** Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and eye/face protection.

#### **6.2** Environmental Precautions

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Contain spill to prevent migration.

Do not allow the undiluted product to enter sewers/surface or ground water.

Dispose of contents/container in accordance with local regulations.

#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 6.3 Methods and material for containment and cleaning-up

**Spill and Leak Procedures:** Absorb spilled materials with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

#### **6.4** Reference to other sections

Refer sections 8 and 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Use good laboratory procedures; avoid eye and skin contact.

### 7.2 <u>Conditions for safe storage, including any incompatibilities</u>

Store at 2 to  $8^{\circ}$  C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

#### 7.3 Specific end uses

No further relevant information available.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 <u>Control parameters</u>

**Exposure Limits** 

**US OSHA** None established

**ACGIH** 0.29 mg/m<sup>3</sup> Ceiling (as NaN<sub>3</sub>); 0.11 ppm Ceiling (as Hydrazoic acid)

Sodium Azide (vapor)

CAS# 26628-22-8

**DFG MAK** 0.4 mg/m<sup>3</sup> Peak (inhalable fraction); 0.2 mg/m<sup>3</sup> TWA MAK

Sodium Azide (inhalable fraction)

CAS# 26628-22-8

**Ireland** 0.1 mg/m³ TWA (as NaN<sub>3</sub>); 0.3 mg/m³ STEL (as NaN<sub>3</sub>); Potential for

Sodium Azide cutaneous absorption

CAS# 26628-22-8

**IOELVs** Possibility of significant uptake through the skin; 0.1 mg/m<sup>3</sup> TWA;

Sodium Azide 0.3 mg/m<sup>3</sup> STEL

CAS# 26628-22-8

NIOSH None established
Japan None established

**Sweden** 0.1 mg/m³ TLV; 0.3 mg/m Binding STEL

Sodium Azide CAS# 26628-22-8

#### 8.2 Exposure controls

**Engineering Controls** No special engineering controls are required. Use with good general

ventilation.

**Eye Protection** Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

**Skin Protection** Wear impervious gloves such as Nitrile or equivalent and protective

clothing.

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or

appropriate government standards.

**Respiratory Protection** Under normal conditions, the use of this product should not require

> respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the

use of respiratory protection should be evaluated by a qualified

professional.

#### PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

**Physical State** Lyophilized – Specific Gravity (water = 1.0) 1.005 @20°C

> Liquid after reconstitution

Color Yellow **Solubility:** 

**Transparency** Clear Water Miscible **Organic** Odor Odorless Not determined Coefficien of Water/Oil pН Not determined

4.7

Distribution

**Freezing Point** Not determined Autoignition Temp. Not applicable **Boiling Point Decomposition Temperature** Not determined Not determined **Flash Point Percent Volatiles** Not applicable Not determined Vapor Pressure **Evaporate Rate** Not determined Not determined Not applicable Flammability (Solid, Gas) Viscosity Not determined **Flammable Limits** Not determined **Explosive Properties** Not applicable **Vapor Density** Not determined **Oxidizing Properties** Not determined

**Odor threshold** Not applicable

Other information

No further relevant information available.

#### 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No further relevant information available.

#### 10.2 Chemical Stability

The product is stable in accordance with recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

#### 10.4 Conditions to Avoid

Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.

#### 10.5 <u>Incompatible materials</u>

Metals and metallic compounds.

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#### MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

#### 10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Toxicity Data for Hazardous** 

**Ingredients** 

Sodium Azide Oral LD50 Rat 27 mg/kg

CAS# 26628-22-8 Dermal LD50 Rabbit 20 mg/kg

8-Hydroquinoline Dermal LD50 Rat >10000 mg/kg (no deaths occurred); Inhalation LC50 Rat >1210 mg/m³ 6 h; Oral LD50 Rat

1200 mg/kg

**Primary Routes of Exposure** Eye contact, ingestion, inhalation, and skin contact.

Acute Toxicity
Not classified based on available data.

Skin Corrosion/Irritation
Not classified based on available data.

May cause an allergic skin reaction

Carcinogenicity

No ingredients in this product are listed as carcinogens by

ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

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Not classified based on available data.

Germ cell mutagenicity

Reproductive Toxicity

Not classified based on available data.

May damage fertility or the unborn child

Not classified based on available data.

exposure

Specific target organ toxicity -

repeated exposure

Aspiration hazard Not classified based on available data.

Other information No further relevant information available.

#### 12 ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

**Fresh Water Species**96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Sodium Azide
Lepomis macrochirus:0.7 mg/L; 96 h LC50 Pimephales

CAS# 26628-22-8 promelas: 5.46 mg/L [flow-through]

MicrotoxNo information availableWater FleaNo information availableFresh Water AlgaeNo information available

#### 12.2 Persistence and degradability

Not determined for the product.

#### 12.3 Bioaccumulation

Not determined for the product.

#### 12.4 Mobility in soil

Not determined for the product.

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2 rue du Bosquet



(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# 12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

# 12.6 Other adverse effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

# 13 DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

# **Product Waste Disposal:**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

# Package disposal:

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

# 13.2 Additional Information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

# 14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

# 14.1 UN/ID Number

Not regulated for transportation

# 14.2 Shipping Name

Not regulated for transportation

# 14.3 Hazard Class

Not regulated for transportation

# 14.4 Packing Group

Printing date

Not regulated for transportation

# 14.5 Environmental Hazards

Not regulated for transportation

# ) A Source

# MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# 14.6 Special Precautions for user

None

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

# 15 REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

**Us Federal and State Regulations** 

**SARA 313** Sodium Azide (CAS #: 26628-22-8)

1.0% de minimis concentration
CERCLA (The Comprenhensive Sodium Azide (CAS #: 26628-22-8)

Response, Compensation and Liability Act) 40 CFR 302.4 California Proposition 65

Chemical which is known to the State of No ingredients listed

California to cause cancer

Chemical which is known to the State of No ingredients listed

California to cause development

toxicity

Chemical which is known to the State of No ingredients listed

California to cause male reproductive

toxicity

Chemical which is known to the State of No ingredients listed

California to cause female reproductive

toxicity

Massachusetts RTK List Sodium Azide (CAS #: 26628-22-8)
New Jersey Dept. of Health RTK List Sodium Azide (CAS #: 26628-22-8)
Pennsylvania RTK List Sodium Azide (CAS #: 26628-22-8)
Sodium Azide (CAS #: 26628-22-8)

**EU** regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

**REACH 1907/2006 EC - Annex XIV -** No ingredients listed. **list of substances subject to** 

authorization

## Canada

Printing date

This product is exempt from WHMIS label and SDS requirements.

# 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below the cutoff of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

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# MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# 16 OTHER INFORMATION

DIAsource ImmunoAssays Safety
Rating

Flammability: 0
Health: 3
Reactivity with water: 0
Contact: 3

Rescription
Contact: 3

Code
0 = None
1 = Slight
2 = Caution
3 = Severe

# Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3

Eye Dam. 1 - Eye Damage Category 1

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

Skin Sens. 1 - Skin Sensitization Category 1

Repr. 1B - Toxic to Reproductive Category 1B

H300 - Fatal if swallowed.

H301 - Toxic if swallowed.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H360 - May damage fertility or the unborn child.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

# **Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists

ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA DGR - International Air Transport Association Dangerous Goods Regulation

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

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LD50 - Lethal Dose, 50%

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# MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

For further information, please contact your local DIAsource ImmunoAssays representative.

# **Notification:**

English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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# MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# WASH SOLUTION

# 1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

# 1.1 Product identifier

Product Name: Wash Solution

Catalog #: Component of KIPB3518

# 1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

# 1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: tech.support@diasource.be

# 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

# 2 HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

**Product Description** Mixture

Colorless; Clear; Liquid; Odorless

Classification according to EC 1272/2008

(CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

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Classification according to US-OSHA

Toxic to

(HCS 29 CFR 1910.1200) and UN GHS

Toxic to Reproductive Category 1

# 2.2 <u>Label elements</u>

# 2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

# **Hazardous Ingredients**

Boric Acid

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Sodium Borate Decahydrate

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# **Pictogram**



# **Signal Word** DANGER

# **Hazard Statements**

H360 May damage fertility or the unborn child.

# **Precautionary Statements**

P201 Obtain special instructions before use.

P280 Wear protective gloves, protective clothing and eye/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

# 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

# 3 COMPOSITION/INFORMATION ON INGREDIENTS

# **Mixture**

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note	
Sodium Borate Decahydrate CAS # 1303-96-4 EINECS# 237-560-2 Index # 005-011-01-1	0.1-0.3	Repr. 1B H360	Acute Tox. Dermal 5 Acute Tox. Oral 5 Repr. 1B Skin Irrit. 3 H303; H313; H316; H360	SVHC	
Boric Acid CAS # 10043-35-3 EINECS# 233-139-2 Index # Not available	0.1-0.3	Repr. 1B H360	Acute Tox. Dermal 5 Acute Tox. Oral 5 Repr. 1B Skin Irrit. 3 H303; H313; H316; H360	SVHC	
SVHC - Substance of very high concern					

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

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See Section 16 for hazard class, hazard statements and risk phrase description

# MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# 4 FIRST AID MEASURES

# 4.1 Description of first aid measures

**Inhalation** If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** If product enters eyes, rinse eyes gently with water as a precaution.

**Skin Contact** In case of skin contact, rinse with water as a precaution.

**Ingestion** If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain

medical attention immediately.

# 4.2 Most important symptoms and effects, both acute and delayed

May damage fertility or the unborn child.

See Section 11 Toxicological Information for more detailed health information.

# 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

# 5 FIRE FIGHTING MEASURES

Flammable properties: Nonflammable aqueous solution.

# 5.1 Extinguishing media

In case of fire use carbon dioxide (CO<sub>2</sub>), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.

# 5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined

**Hazardous Combustion Products:** No combustion products posing significant hazards are expected from this product (an aqueous solution).

# **5.3** Advice for fire fighters

**Protective Equipment:** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

# 5.4 Additional information

No further relevant information available.

(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# ACCIDENTAL RELEASE MEASURES

# Personal precaution, protective equipment and emergency procedures

**Personal Precautions:** Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and eye/face protection.

### 6.2 **Environmental Precautions**

Contain spill to prevent migration.

Do not allow the undiluted product to enter sewers/surface or ground water.

### 6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

### Reference to other sections 6.4

Refer sections 8 and 13.

### 7 HANDLING AND STORAGE

### 7.1 **Precautions for safe handling**

Use good laboratory procedures; avoid eye and skin contact.

# Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

### 7.3 Specific end uses

No further relevant information available.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 **Control parameters**

**Exposure Limits** 

**US OSHA** None established

**ACGIH** 

CAS# 1303-96-4

Sodium Borate Decahydrate 6 mg/m<sup>3</sup> STEL (inhalable particulate matter) (listed under Borate

compounds, inorganic); 2 mg/m<sup>3</sup> TWA (inhalable particulate matter)

(listed under Borate compounds, inorganic)

Boric Acid 6 mg/m<sup>3</sup> STEL (inhalable particulate matter) (listed under Borate CAS# 10043-35-3

compounds, inorganic); 2 mg/m<sup>3</sup> TWA (inhalable particulate matter)

(listed under Borate compounds, inorganic)

10 mg/m<sup>3</sup> Peak (in case of a simultaneous presence of Boric acid and **DFG MAK** 

Tetraborates 0.75 mg Boron/m<sup>3</sup> applies) (as B) (inhalable fraction); Boric Acid

CAS# 10043-35-3 10 mg/m<sup>3</sup> TWA MAK (inhalable fraction) (as B)

**Ireland** 

Sodium Borate Decahydrate 5 mg/m<sup>3</sup> TWA (listed under Borates); 15 mg/m<sup>3</sup> STEL (calculated)

CAS# 1303-96-4 (listed under Borates)

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**IOELVs** None etablished

**NIOSH** 

Sodium Borate Decahydrate 5 mg/m³ TWA

CAS# 1303-96-4

**Japan** None established

Sweden

Sodium Borate Decahydrate 2 mg/m³ TLV; 5 mg/m³ Indicative STEL; Skin notation

CAS# 1303-96-4

8.2 Exposure controls

**Engineering Controls** No special engineering controls are required. Use with good general

ventilation.

**Eye Protection** Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

**Skin Protection** Wear impervious gloves such as Nitrile or equivalent and protective

clothing.

Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN

14605:2005+A1:2009 or appropriate government standards.

**Respiratory Protection** Under normal conditions, the use of this product should not require

respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the

**Specific Gravity (water = 1.0)** 

≈ 1 @20°C

use of respiratory protection should be evaluated by a qualified

professional.

# 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 <u>Information on basic physical and chemical properties</u>

Liquid

Color	Colorless	Solubility:	
Transparency	Clear	Water	Miscible
Odor	Odorless	Organic	Not determined
pH	8.3	Coefficien of Water/Oil	Not determined
		Distribution	
Freezing Point	Not determined	Autoignition Temp.	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
Flash Point	Not applicable	Percent Volatiles	Not determined
Evaporate Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammable Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not determined
Odor threshold	Not applicable		

# 9.2 Other information

**Physical State** 

No further relevant information available.

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# 10 STABILITY AND REACTIVITY

# 10.1 Reactivity

No further relevant information available.

# 10.2 Chemical Stability

The product is stable in accordance with recommended storage conditions.

# 10.3 Possibility of hazardous reactions

No further relevant information available.

# 10.4 Conditions to Avoid

To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.

# 10.5 Incompatible materials

No further relevant information available.

# 10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from this product (a aqueous solution).

# 11 TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

**Toxicity Data for Hazardous** 

**Ingredients** 

Sodium Borate Decahydrate Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat

CAS# 1303-96-4 >0.16 mg/L 4 h (no deaths occurred); Oral LD50 Rat 2660

mg/kg

Boric Acid Dermal LD50 Rabbit >10000 mg/kg; Inhalation LC50 Rat

CAS# 10043-35-3 >2 mg/m3 4 h; Oral LD50 Rat 3493 mg/kg

**Primary Routes of Exposure** Eye contact, ingestion, inhalation, and skin contact.

Acute Toxicity

Not classified based on available data.

Serious eve damage / eve irritation

Not classified based on available data.

Not classified based on available data.

Serious eye damage / eye irritation
Skin/ Respiratory sensitization
Carcinogenicity

Not classified based on available data.
No ingredients in this product are listed

Carcinogenicity

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP,OSHA or 1272/2008 EC regulation.

**Germ cell mutagenicity** No data available.

**Reproductive Toxicity**May damage fertility or the unborn child. **Specific target organ toxicity – single**Not classified based on available data.

exposure

**Specific target organ toxicity** – Not classified based on available data. **repeated exposure** 

**Aspiration Hazard**Not classified based on available data. **Other information**No further relevant information available.

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# 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fresh Water Species No information available Microtox No information available

Water Flea

Boric Acid 48 h EC50 Daphnia magna: 1 15 - 153 mg/L

CAS# 10043-35-3

Fresh Water Algae No information available

# 12.2 Persistence and degradability

Not determined for the product.

# 12.3 Bioaccumulation

Not determined for the product.

# 12.4 Mobility in soil

Not determined for the product.

# 12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

# 12.6 Other adverse effects

No further relevant information available.

# 13 DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

## **Product Waste Disposal:**

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

# Package disposal:

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Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

# 13.2 Additional Information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

# 14 TRANSPORT INFORMATION

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Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: Angiotensin I RIA

Catalog #: KIPB3518

# 14.1 UN/ID Number

Not regulated for transportation

# 14.2 Shipping Name

Not regulated for transportation

# 14.3 Hazard Class

Not regulated for transportation

# 14.4 Packing Group

Not regulated for transportation

# 14.5 Environmental Hazards

Not regulated for transportation

# 14.6 Special Precautions for user

None

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

# **REGULATORY INFORMATION**

# 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

# **Us Federal and State Regulations**

**SARA 313 CERCLA** (The Comprenhensive Response, Compensation and Liability Act) 40 CFR 302.4 California Proposition 65

No ingredients listed. No ingredients listed.

Chemical which is known to the State of No ingredients listed. California to cause cancer

Chemical which is known to the State of No ingredients listed. California to cause development toxicity

Chemical which is known to the State of No ingredients listed. California to cause male reproductive toxicity

Chemical which is known to the State of No ingredients listed.

California to cause female reproductive toxicity

**Massachusetts MSL** 

Sodium Borate Decahydrate (CAS # 1303-86-4) New Jersey Dept. of Health RTK List No ingredients listed.

Pennsylvania RTK Sodium Borate Decahydrate (CAS # 1303-86-4)

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# **EU regulations**

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) REACH 1907/2006 EC - Annex XIV list of substances subject to

WGK 1, low water endangering

No ingredients listed.

## Canada

authorization

This product is exempt from WHMIS label and SDS requirements

# 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below the cutoff of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

# 16 OTHER INFORMATION

	Flammability: 0 Health: 3 Reactivity with water: 0 Contact: 3	Code
DIAsource ImmunoAssays Safety	Health: 3	0 = None 1 = Slight
Rating	Reactivity with water: 0	2 = Caution
	Contact. 3	3 = Severe

# Hazard Class, hazard statements and risk phrase description from section 3

Acute Tox. Dermal 5 - Acute Toxicity Dermal, Category 5

Acute Tox. Oral 5 - Acute Toxicity Oral, Category 5

Skin Irrit. 3 - Skin Irritation Category 3

Repr. 1B - Toxic to Reproductive Category 1B

H303 - May be harmful if swallowed.

H313 - May be harmful in contact with skin

H316 - Causes mild skin irritation.

H360 - May damage fertility or the unborn child.

# **Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists

ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA DGR - International Air Transport Association Dangerous Goods Regulation

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

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SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

EC50 - Effective Concentration, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

# **Notification:**

English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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