

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## **KIT**

## 1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

## 1.1 **Product identifier**

Product Name: 5-HIAA ELISA

Catalog #: KAPL10-1900

Kit Components: Adhesive foil Antiserum

Reaction plate
Wash Buffer
Controls
Enzyme Conjugate
Substrate
Stop Solution
Microtiterwells
Standards
Controls
Diluent
Assay Buffer
Methylation Buffer
Methylation Reagent

#### 1.2 Intended Use

For In Vitro Diagnostic Use. The product is intended for professional use.

#### 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: products.support@diasource.be

## 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

## 2 OTHER INFORMATION

## 2.1 <u>Labeling of microtiterplate:</u>

Each well can only be used once

## 2.2 Non dangerous component

Not listed components contain no hazardous substance in concentrations to be declared, a labeling is not required.

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#### MATERIEL SAFETY DATA SHEET

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## **DILUENT**

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

#### 1.1 **Product identifier**

Product Name: Diluent

Catalog #: Component of the kit mentioned on the first page

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

Laboratory reagent / Immunoassay. The product is intended for professional use.

#### 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: products.support@diasource.be

### 1.4 <u>Emergency telephone</u>

DIAsource (only office hours): +32 (0)10/84.99.11 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

REGULATION (EC) No 1272/2008

Corrosive to metals, Category 1, H290

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

REGULATION (EC) No 1272/2008

**Hazard pictograms:** 

Signal word: Warning

**Hazard statements:** 

H290 May be corrosive to metals.

#### **Precautionary statements:**

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosion resistant container with a resistant inner liner.

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Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Reduced labelling (contents of the package  $\leq$  125 ml) according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : Signal word (CLP) : Hazard statements (CLP) : Precautionary statements (CLP) : -

## 2.3 Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/6.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008 [CLP]
hydrochloric acid %	(EC-No) 231-595-7	< 1	Met. Corr. 1, H290
	(EC Index-No) 017-002-01-X		Skin Corr. 1B, H314
			Eye Dam. 1, H318
			STOT SE

Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]
hydrochloric acid %	(EC-No) 231-595-7 (EC Index-No) 017-002-01-X	$(10 \le C < 25)$ Skin Irrit. 2, H315 $(10 \le C < 25)$ Eye Irrit. 2, H319
	(Le macx-100) 017-002-01-X	$(10 \le C \le 100)$ STOT SE 3, H335
		$(25 \le C \le 100)$ Skin Corr. 1B, H314

For the full text of the H-Statements mentioned in this section, see section 16.

## 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

First-aid measures general: Get medical advice/attention if you feel unwell. If possible

show him this sheet. Failing this,

show him the packaging or label. Never give anything by mouth

to an unconscious person.

Place the affected person in the recovery position.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact: Take off immediately all contaminated clothing. Gently wash

with plenty of soap and water.

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing. Call a physician immediately.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Drink plenty of water

as a precaution.

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

Symptoms/effects: Not expected to present a significant hazard under anticipated

conditions of normal use.

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

Treat symptomatically.

## 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Adapt extinguishing agents to the environment. Carbon dioxide.

Foam. Dry extinguishing powder. Water spray.

Unsuitable extinguishing media: Do not use a heavy water stream.

## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic gases may be formed. Carbon dioxide.

Carbon monoxide. Hydrogen chloride. Chlorine.

## 5.3 Advice for fire fighters

Firefighting instructions: Prevent firefighting water from entering the environment. Use

water spray or fog for cooling exposed containers.

Protection during firefighting: Use a self-contained breathing apparatus and also a protective

suit.

## 6 ACCIDENTAL RELEASE MEASURES

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

General measures: Ensure adequate air ventilation. Avoid contact with skin and

eyes. Do not breathe vapours/spray.

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Use personal protective equipment as required. In case of

inadequate ventilation wear respiratory protection.

#### **6.2** Environmental Precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up: Absorb spillage to prevent material damage. Wipe up with

absorbent material (for example cloth). Soak up spills with inert

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solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

## 6.4 Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal

protective equipment. Avoid contact with skin and eyes. Do not

breathe vapour/aerosol.

Hygiene measures: Handle in accordance with good industrial hygiene and safety

procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in corrosive resistant container with a resistant inner liner.

Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight.

Keep out of frost.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs.

Incompatible materials: Metals.

## 7.3 Specific Use(s)

Laboratory reagent, Immunoassays.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Hydrochloric acid % (EC 231-595-7)		
EU	Local name	Hydrogen chloride
EU	IOELV TWA (mg/m³)	8 mg/m³
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (mg/m³)	15 mg/m³
EU	IOELV STEL (ppm)	10 ppm
Austria	Local name	Chlorwasserstoff
Austria	MAK (OEL TWA) (mg/m³)	8 mg/m³
Austria	MAK (OEL TWA) (ppm)	5 ppm
Austria	MAK (OEL STEL) (mg/m³)	15 mg/m³
Austria	MAK (OEL STEL) (ppm)	10 ppm
Belgium	Local name	Hydrogène (chlorure d') # Waterstofchloride
Belgium	OEL TWA (mg/m³)	8 mg/m³
Belgium	OEL TWA (ppm)	5 ppm
Belgium	OEL STEL (mg/m³)	15 mg/m³
Belgium	OEL STEL (ppm)	10 ppm
Germany	TRGS 900 Local name	Hydrogenchlorid

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Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	3 mg/m³
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	2 ppm
Germany	TRGS 900 Remark	2(I), DFG, EU, Y
Luxembourg	Local name	Chlorure d'hydrogène
Luxembourg	OEL TWA (mg/m³)	8 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	5 ppm
Luxembourg	OEL STEL (mg/m³)	15 mg/m³
Luxembourg	OEL STEL (ppm)	10 ppm
Switzerland	Local name	Acide chlorhydrique / Chlorwasserstoff [Salzsäure]
Switzerland	MAK (mg/m³)	3 mg/m³
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m³)	6 mg/m³
Switzerland	KZGW (ppm)	4 ppm
Switzerland	Notation	SSC

Hydrochloric acid % (EC 231-595-7)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	15 mg/m³	
Long-term - local effects, inhalation	8 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation	15 mg/m³	
Long-term - local effects, inhalation	8 mg/m³	

#### 8.2 Exposure controls

## **Appropriate engineering controls:**

Provide local exhaust or general room ventilation to minimize vapour concentrations.

## **Hand protection:**

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**

Wear safety glasses (EN 166).

## **Skin and body protection:**

Wear suitable protective clothing.

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

### **Environmental exposure controls:**

Avoid release to the environment.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state : Liquid
Colour : Colourless
Odour : No data available
Melting point/freezing point : No data available

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Boiling point or initial boiling point and boiling range
Flammability
Lower and upper explosion limit
Flash point
Flash point
Substitute the properties of the point in the point in the properties of the point in the point

pH : 1.0 - 1.3

Kinematic viscosity : No data available
Solubility : No data available
Partition coefficient n-octanol/water (log value) : Not applicable
Vapour pressure : No data available
Density and/or relative density : No data available
Relative vapour density : No data available
Particle size : Not applicable

## 9.2 Other information

#### 9.2.1 <u>Information with regard to physical hazard classes</u>

Explosive properties : No explosive properties Oxidising properties : No oxidising properties

9.2.2 Other safety characteristics
No additional information available.

## 10 STABILITY AND REACTIVITY

## 10.1 Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2 Chemical Stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3 Possibility of hazardous reactions

May be corrosive to metals.

#### 10.4 Conditions to Avoid

High temperatures.

## 10.5 Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. Metals.

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

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Carbon dioxide. Carbon monoxide. Hydrogen chloride. Chlorine.

## 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Not classified

Based on available data, the classification criteria are not met

Hydrochloric acid ... % (EC 231-595-7)

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LC50 inhalation rat	7051 mg/m³ 30 min
C1 ' ' ' '	NT . 1 'C' 1

Skin corrosion/irritation: Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation: Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitization: Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified

Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity: Not classified

rot classified

(single exposure) Based on available data, the classification criteria are not met

Specific target organ toxicity: Not classified

(repeated exposure) Based on available data, the classification criteria are not met

Aspiration hazard: Not classified

Based on available data, the classification criteria are not met

11.2 Additional information

Potential adverse human health:

effects and symptoms

Based on available data, the classification criteria are not met

#### 12 ECOLOGICAL INFORMATION

## 12.1 Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Hydrochloric acid % (EC 231-595-7)		
LC50 fish	pH 3.25 – 3.5 96 h, Lepomis macrochirus	
EC50 crustacea	pH 4.92 48 h, Daphnia magna	
EC50 algae	pH 4.7 72 h, Chlorella vulgaris	

#### 12.2 Persistence and degradability

No additional information available.

#### 12.3 <u>Bioaccumulation</u>

No additional information available.

#### 12.4 Mobility in soil

No additional information available.

## 12.5 Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 12.6 Endocrine disrupting properties

No additional information available.

#### 12.7 Other adverse effects

No additional information available

## 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national

regulations.

Waste treatment methods: Do not empty into drains. Dispose of this material and its

container in a safe way.

Waste code: The waste code number according to the Ordinance on the

European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste

producer.

#### 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA.

#### 14.1 UN number or ID number

UN-No. (ADR):

UN-No. (IMDG):

Not applicable

UN-No. (IATA):

Not applicable

## 14.2 UN proper shipping name

Proper Shipping Name (ADR): Not applicable
Proper Shipping Name (IMDG): Not applicable
Proper Shipping Name (IATA): Not applicable

#### 14.3 Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR): Not applicable

**IMDG** 

Transport hazard class(es) (IMDG): Not applicable

**IATA** 

Transport hazard class(es) (IATA): Not applicable

14.4 Packing group

Packing group (ADR): Not applicable
Packing group (IMDG): Not applicable

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Packing group (IATA): Not applicable

14.5 Environmental hazards

Dangerous for the environment: No Marine pollutant: No

Other information : No supplementary information available

## 14.6 Special precautions for user

## **Overland transport**

Not applicable

#### Transport by sea

Not applicable

## Air transport

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

#### 15 REGULATORY INFORMATION

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

#### **EU** regulations

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

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

No chemical safety assessment has been carried out.

## 16 OTHER INFORMATION

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT

AND OF THE COUNCIL of 16 December 2008 on classification, labelling

and packaging of substances and mixtures, amending and repealing

Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

1907/2006.

#### Abbreviations and acronyms:

	sole viations and actoryms.		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DMEL	Derived Minimal Effect Level		
DNEL	Derived No-Effect Level		
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)		
IATA	International Air Transport Association		
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea		
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)		
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)		

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LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

## Full text of H- and EUH-phrases:

[ - · ·	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

## Notification:

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

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

#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## **STOP SOLUTION**

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

#### 1.1 Product identifier

Product Name: Stop Solution

Catalog #: Component of the kit mentioned on the first page

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

Laboratory reagent / Immunoassay. The product is intended for professional use.

#### 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: products.support@diasource.be

### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 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

REGULATION (EC) No 1272/2008

Corrosive to metals, Category 1, H290

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

REGULATION (EC) No 1272/2008

**Hazard pictograms:** 

Signal word: Warning

**Hazard statements:** 

H290 May be corrosive to metals.

## **Precautionary statements:**

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosion resistant container with a resistant inner liner.

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Reduced labelling (contents of the package  $\leq$  125 ml) according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : Signal word (CLP) : Hazard statements (CLP) : Precautionary statements (CLP) : -

## 2.3 Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/6.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Product identifier	%	Classification according to
		Regulation (EC) No. 1272/2008 [CLP]
(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	< 5	Met. Corr. 1, H290 Skin Corr. 1A, H314
	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5	(CAS-No.) 7664-93-9 < 5 (EC-No.) 231-639-5

Name	Product identifier	Specific concentration limits according to
		<b>Regulation (EC) No. 1272/2008 [CLP]</b>
Sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	(5 ≤ C < 15) Eye Irrit. 2, H319 (5 ≤ C < 15) Skin Irrit. 2, H315 (C ≥ 15) Skin Corr. 1A, H314

For the full text of the H-Statements mentioned in this section, see section 16.

## 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

First-aid measures general: Get medical advice/attention if you feel unwell. If possible

show him this sheet. Failing this,

show him the packaging or label. Never give anything by mouth

to an unconscious person.

Place the affected person in the recovery position.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact: Take off immediately all contaminated clothing. Gently wash

with plenty of soap and water.

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Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing. Call a physician immediately.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Drink plenty of water

as a precaution.

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

Symptoms/effects: Not expected to present a significant hazard under anticipated

conditions of normal use.

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

Treat symptomatically.

## 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Adapt extinguishing agents to the environment. Carbon dioxide.

Foam. Dry extinguishing powder. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic gases may be formed. Carbon dioxide.

Carbon monoxide.

#### 5.3 Advice for fire fighters

Firefighting instructions: Prevent firefighting water from entering the environment. Use

water spray or fog for cooling exposed containers.

Protection during firefighting: Use a self-contained breathing apparatus and also a protective

suit.

### 6 ACCIDENTAL RELEASE MEASURES

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

General measures: Ensure adequate air ventilation. Avoid contact with skin and

eyes. Do not breathe vapours/spray.

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Use personal protective equipment as required. In case of

inadequate ventilation wear respiratory protection.

#### **6.2** Environmental Precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up: Absorb spillage to prevent material damage. Wipe up with

absorbent material (for example cloth). Soak up spills with inert

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Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

## 6.4 Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal

protective equipment. Avoid contact with skin and eyes. Do not

breathe vapour/aerosol.

Hygiene measures: Handle in accordance with good industrial hygiene and safety

procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in corrosive resistant container with a resistant inner liner.

Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight.

Keep out of frost.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs.

Incompatible materials: Metals.

### 7.3 Specific Use(s)

Laboratory reagent, Immunoassays.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Sulphuric acid (7664-93-9)		
EU	Local name	Sulphuric acid (mist)
EU	IOEL TWA	0.05 mg/m³
Austria	Local name	Schwefelsäure
Austria	MAK (OEL TWA) (mg/m³)	0.1 E mg/m³
Austria	MAK (OEL STEL) (mg/m³)	0.2 E mg/m³
Belgium	Local name	Acide sulfurique (brume) # Zwavelzuur (nevel)
Belgium	OEL TWA (mg/m³)	0.2 mg/m³
Belgium	Remark	С
Germany	TRGS 900 Local name	Schwefelsäure
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	0.1 E mg/m³
Germany	TRGS 900 Remark	1(I), DFG, EU, Y
Luxembourg	Local name	Acide sulfurique (brume)
Luxembourg	OEL STEL (mg/m³)	0.05 mg/m³
Switzerland	Local name	Schwefelsäure
Switzerland	MAK (mg/m³)	0.1 e mg/m³
Switzerland	KZGW (mg/m³)	0.2 e mg/m³
Switzerland	Notation	C1 <sup>#</sup> <sub>A</sub> , SSc

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 8.2 Exposure controls

#### **Appropriate engineering controls:**

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### **Hand protection:**

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**

Wear safety glasses (EN 166).

### **Skin and body protection:**

Wear suitable protective clothing.

## **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

#### **Environmental exposure controls:**

Avoid release to the environment.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless

Odour : No data available : No data available Melting point/freezing point Boiling point or initial boiling point and boiling range : No data available Flammability : No data available Lower and upper explosion limit : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available

pH :< 1.0

Kinematic viscosity : No data available
Solubility : No data available
Partition coefficient n-octanol/water (log value) : Not applicable
Vapour pressure : No data available
Density and/or relative density : No data available
Relative vapour density : No data available
Particle size : Not applicable

#### 9.2 Other information

#### 9.2.1 <u>Information with regard to physical hazard classes</u>

Explosive properties : No explosive properties Oxidising properties : No oxidising properties

## 9.2.2 Other safety characteristics

No additional information available.

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### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2 Chemical Stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3 Possibility of hazardous reactions

May be corrosive to metals.

## 10.4 Conditions to Avoid

High temperatures.

### 10.5 Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. Metals.

#### 10.6 Hazardous Decomposition Products

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Carbon dioxide. Carbon monoxide. Hydrogen chloride. Chlorine.

#### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Not classified

Based on available data, the classification criteria are not met

Sulphuric acid (7664-93-9)		
LD50 oral rat	2140 mg/kg	
LC50 inhalation rat	375 mg/m³	

Skin corrosion/irritation: Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation: Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitization: Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified

Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity: Not classified

(single exposure) Based on available data, the classification criteria are not met

Specific target organ toxicity: Not classified

(repeated exposure) Based on available data, the classification criteria are not met

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Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Aspiration hazard: Not classified

Based on available data, the classification criteria are not met

11.2 Additional information

Potential adverse human health:

effects and symptoms

Based on available data, the classification criteria are not met

#### 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Sulphuric acid (7664-93-9)		
LC50 fish	> 16 - < 28 mg/l 96 h, Lepomis macrochirus	
EC50 crustacea	> 100 mg/l 48 h, Daphnia magna	
EC50 algae	> 100 mg/l 72 h, Desmodesmus subspicatus	
NOEC chronic fish	0.31 mg/l 213 d, Salvelinus fontinalis	
NOEC chronic crustacea	0.15 mg/l, Tanytarsus dissimilis	

#### 12.2 Persistence and degradability

No additional information available.

## 12.3 Bioaccumulation

No additional information available.

#### 12.4 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6 Endocrine disrupting properties

No additional information available.

## 12.7 Other adverse effects

No additional information available

#### 13 DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national

regulations.

Waste treatment methods: Do not empty into drains. Dispose of this material and its

container in a safe way.

Waste code: The waste code number according to the Ordinance on the

European Waste Catalogue depends on the waste producer and

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can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

#### 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA.

14.1 <u>UN number or ID number</u>

UN-No. (ADR):

UN-No. (IMDG):

Not applicable

UN-No. (IATA):

Not applicable

14.2 UN proper shipping name

Proper Shipping Name (ADR): Not applicable
Proper Shipping Name (IMDG): Not applicable
Proper Shipping Name (IATA): Not applicable

14.3 Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR): Not applicable

**IMDG** 

Transport hazard class(es) (IMDG): Not applicable

**IATA** 

Transport hazard class(es) (IATA): Not applicable

14.4 Packing group

Packing group (ADR):

Not applicable
Packing group (IMDG):

Not applicable
Packing group (IATA):

Not applicable

14.5 Environmental hazards

Dangerous for the environment: No Marine pollutant: No

Other information : No supplementary information available

14.6 Special precautions for user

**Overland transport** 

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

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## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

## 15 REGULATORY INFORMATION

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

#### **EU** regulations

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

## 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

## 16 OTHER INFORMATION

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT

AND OF THE COUNCIL of 16 December 2008 on classification, labelling

and packaging of substances and mixtures, amending and repealing

Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

1907/2006.

Abbreviations and acronyms:

1001C viations	and actoryms.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

## Full text of H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

## Notification:

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

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



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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## **METHYLATION BUFFER**

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

#### 1.1 **Product identifier**

Product Name: Methylation Buffer

Catalog #: Component of the kit mentioned on the first page

#### 1.2 Intended Use

Laboratory reagent / Immunoassay. The product is intended for professional use.

#### 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: products.support@diasource.be

## 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 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

#### REGULATION (EC) No 1272/2008

Flammable liquid, Category 2, H225

Acute toxicity (oral), Category 3, H301

Acute toxicity (dermal), Category 3, H311

Acute toxicity, Category 3, Inhalation, H331

Specific target organ toxicity-single exposure, Category 1, Eyes, H370

#### 2.2 Label elements

#### REGULATION (EC) No 1272/2008

**Hazard pictograms:** 

Signal word: Danger

Hazardous ingredients: Methanol

**Hazard statements:** 

H225 Highly flammable liquid and vapour.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs (eyes).

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### **Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
P280 Wear protective gloves/ protective clothing.

P308+P311 IF exposed or concerned: Call a POISON CENTER, doctor.

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P501 Dispose of contents/container to national regulations.

Reduced labelling (contents of the package  $\leq$  125 ml) according to Regulation (EC) No. 1272/2008



**Hazard pictograms:** 

Signal word: Danger

Hazardous ingredients: Methanol

**Hazard statements:** 

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs (eyes).

## **Precautionary statements:**

P260 Do not breathe dust/fume/ gas/mist/vapours/spray. P280 Wear protective gloves/ protective clothing.

P308+P311 IF exposed or concerned: Call a POISON CENTER, doctor.

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P501 Dispose of contents/container to national regulations.

## 2.3 Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine

disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated

Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dimethyl sulfoxide	(CAS no) 67-68-5 (EC no) 200-664-3	40 - 60	Not classified
Methanol	(CAS no) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	20 - 50	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Methanol (CAS no) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X (3 ≤ C < 10) STOT SE 2, H371 (10 ≤ C ≤ 100) STOT SE 1, H370

Full text of H-statements: see section 16.

## 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

First-aid measures general: IF exposed or concerned: Call a POISON CENTER or doctor.

If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery

position.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Make the affected person rest and keep at warm. If breathing stops, give artificial respiration.

First-aid measures after skin contact: Take off immediately all contaminated clothing. IF ON SKIN:

Wash with plenty of soap and water. Get medical

advice/attention if you feel unwell.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

First-aid measures after ingestion: IF SWALLOWED: Immediately call a POISON

CENTER/doctor. Rinse mouth. Do NOT induce vomiting.

Drink water as a precaution.

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

Symptoms/effects general: Causes damage to organs (eye, central nervous system).

Symptoms/effects after inhalation: Toxic if inhaled. Possible symptoms: cough, dizziness,

headache.

Symptoms/effects after skin contact: Toxic in contact with skin.

Symptoms/effects after ingestion: Toxic if swallowed. Possible symptoms: Abdominal pain,

malaise, vomiting. Poisoning effects on central nervous system may cause cramps, difficulty in breathing and unconsciousness.

Risk of blindness.

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

Treat symptomatically.

#### 5 FIRE FIGHTING MEASURES

## 5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide. Dry extinguishing powder. Water spray. For a

significant fire: Alcohol resistant foam.

Unsuitable extinguishing media: Do not use a heavy water stream.

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

Fire hazard: Highly flammable liquid and vapour.

Explosion hazard: May form flammable/explosive vapour-air

mixture.

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Hazardous decomposition products in case of fire: Toxic gases may be formed. Carbon dioxide.

Carbon monoxide. Sulphur oxides.

5.3 Advice for firefighters

Firefighting instructions: Prevent firefighting water from entering the environment. Use

water spray or fog for cooling exposed containers.

Protection during firefighting: Use a self-contained breathing apparatus and also a protective

suit.

## 6 ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

General measures: Stop leak if safe to do so. Provide adequate ventilation. Remove

ignition sources. Use special care to avoid static electric

charges. No open flames. No smoking. Avoid contact with skin

and eyes. Do not breathe vapours/spray.

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Use personal protective equipment as required. In case of

inadequate ventilation wear respiratory protection.

#### **Environmental precautions**

Prevent entry to sewers and public waters.

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

Methods for cleaning up: Wipe up with absorbent material (for example cloth). Soak up

spills with inert solids, such as clay or diatomaceous earth as soon as possible. Clean preferably with a detergent - Avoid the use of solvents. Dispose of in accordance with relevant local

regulations.

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

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

## 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapours are

flammable.

Precautions for safe handling: Provide good ventilation in process area to prevent formation of

vapour. Remove all sources of ignition. No open flames. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe

vapour/aerosol.

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Hygiene measures: Handle in accordance with good industrial hygiene and safety

procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before

reuse.

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

Technical measures: Proper grounding procedures to avoid static electricity should

be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions: Store in original container. Keep container tightly closed. Store

in a cool, well-ventilated place. Keep in fireproof place. Protect from direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store

locked up.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs. Keep

away from oxidising agents and strongly alkaline and strongly

acidic materials to prevent the possibility of exothermic

reaction.

## 7.3 Specific end use(s)

Laboratory reagent, Immunoassays.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Dimethyl sulfoxide (67-68-5)		
Austria	Local name	Dimethylsulfoxid
Austria	MAK (OEL TWA) (mg/m³)	160 mg/m³
Austria	MAK (OEL TWA) (ppm)	50 ppm
Austria	Remark (AT)	Н
Germany	TRGS 900 Local name	Dimethylsulfoxid (DMSO)
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	160 mg/m³
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	50 ppm
Germany	TRGS 900 Remark	2(I), DFG, Z, H
Switzerland	Local name	Diméthylsulfoxyde (DMSO) / Dimethylsulfoxid (DMSO)
Switzerland	MAK (mg/m³)	160 mg/m³
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m³)	320 mg/m³
Switzerland	KZGW (ppm	100 ppm
Switzerland	Notation (CH)	Н
Methanol (67-56	G-1)	
EU	Local name	Methanol
FU	IOFL V TWA (mg/m³)	260 mg/m <sup>3</sup>

Methanol (67-56-1)		
EU	Local name	Methanol
EU	IOELV TWA (mg/m³)	260 mg/m³
EU	IOELV TWA (ppm)	200 ppm
EU	Annotation	Skin
Austria	Local name	Methanol
Austria	MAK (OEL TWA) (mg/m³)	295 mg/m³
Austria	MAK (OEL TWA) (ppm)	100 ppm

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Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Austria	MAK (OEL STEL) (mg/m³)	590 mg/m³
Austria	MAK (OEL STEL) (ppm)	200 ppm
Austria	Remark (AT)	Н
Belgium	Local name	Alcool méthylique # Methanol
Belgium	OEL TWA (mg/m³)	266 mg/m³
Belgium	OEL TWA (ppm)	200 ppm
Belgium	OEL STEL (mg/m³)	333 mg/m³
Belgium	OEL STEL (ppm)	250 ppm
Belgium	Remark (BE)	D
Germany	TRGS 900 Local name	Methanol
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	130 mg/m³
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	100 ppm
Germany	TRGS 900 Remark	2(II), DFG,EU,H,Y
Germany	TRGS 903 (BGW)	15 mg/l U, b, c parameter: Methanol
Luxembourg	Local name	Méthanol
Luxembourg	OEL TWA (mg/m³)	260 mg/m³
Luxembourg	OEL TWA (ppm)	200 ppm
Luxembourg	Mention	Peau
Switzerland	Local name	Méthanol / Methanol [Methylalkohol]
Switzerland	MAK (mg/m³)	260 mg/m³
Switzerland	MAK (ppm)	200 ppm
Switzerland	KZGW (mg/m³)	520 mg/m³
Switzerland	KZGW (ppm	400 ppm
Switzerland	Notation (CH)	H, B, SSc
Switzerland	BAT Values	30 mg/l, U, b, c parameter: Methanol

Dimethyl sulfoxide (67-68-5)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	365 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	75 mg/m³	
Long-term - local effects, inhalation	17.67 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	1.67 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	56 mg/m³	
Long-term - systemic effects, dermal	178 mg/kg bodyweight/day	
Dimethyl sulfoxide (67-68-5)		
Long-term - local effects, inhalation	3.13 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	17 mg/l	
PNEC aqua (marine water)	1.7 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	61.4 mg/kg dry weight	
PNEC sediment (marine water)	6.14 mg/kg dry weight	
PNEC (Soil)		
PNEC soil	2.32 mg/kg dry weight	
PNEC (Oral)		
PNEC oral (secondary poisoning)	0.7 g/kg food	
PNEC (STP)		
PNEC sewage treatment plant	11 mg/l	

Methanol (67-56-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	20 mg/kg bodyweight/day

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1348 - Louvain-la-Neuve Belgium



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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Acute - systemic effects, inhalation	130 mg/m³
Acute - local effects, inhalation	130 mg/m³
Long-term - systemic effects, dermal	20 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	130 mg/m³
Long-term - local effects, inhalation	130 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	4 mg/kg bodyweight/day
Acute - systemic effects, inhalation	26 mg/m³
Acute - systemic effects, oral	4 mg/kg bodyweight/day
Acute - local effects, inhalation	26 mg/m³
Long-term - systemic effects, oral	4 mg/kg bodyweight/day
Long-term - systemic effects, inhalativ	26 mg/m³
Long-term - systemic effects, dermal	4 mg/kg bodyweight/day
Long-term - local effects, inhalation	26 mg/m³

## 8.2 Exposure controls Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### **Hand protection:**

Wear suitable gloves (EN 374). Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## **Eye protection:**

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing. Flame retardant antistatic protective clothing.

## **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type AX.

#### **Environmental exposure controls:**

Avoid release to the environment.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state: Liquid
Colour: Colourless
Odour: Alcoholic

Melting point/freezing point:

No data available
Boiling point or initial boiling point and boiling range:

No data available

Flammability: Highly flammable liquid and vapour

Lower and upper explosion limit:

Flash point:

Auto-ignition temperature:

Decomposition temperature:

PH:

No data available

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density:

Relative vapour density:

Particle size:

Not applicable

No data available

No data available

No data available

Not applicable

## 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

Explosive properties: May form flammable/explosive vapour-air mixture.

Oxidising properties: No oxidising properties.

9.2.2 Other safety characteristics No additional information available.

No additional information available

## 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.2 Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4 Conditions to avoid

Avoid contact with hot surfaces. Heat. Open flame. Sparks. Ignition sources.

#### 10.5 Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

#### 10.6 Hazardous decomposition products

May release flammable gases. In case of fire: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulphur oxides.

### 11 TOXICOLOGICAL INFORMATION

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Toxic if swallowed, in contact with skin or if inhaled.

Dimethyl sulfoxide (67-68-5)			
LD50 oral rat	28300 mg/kg		
LD50 dermal rat	~ 40000 mg/kg	~ 40000 mg/kg	
LC50 inhalation rat	> 5.33 mg/l air, 4 h	> 5.33 mg/l air, 4 h	
Methanol (67-56-1)			
LD50 oral rat 1187 - 2769 mg/kg (15 - 35 % in solution)			
LC50 inhalation rat (Vapours)	128.2 mg/l air, 4 h	128.2 mg/l air, 4 h	

Skin corrosion/irritation: Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation: Not classified

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Based on available data, the classification criteria are not met

Respiratory or skin sensitization: Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified

Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity:

Causes damage to organs (eye, central nervous (single system).

Not classified

exposure)

sjstemj.

Specific target organ toxicity: (repeated exposure)

Based on available data, the classification criteria are not met

Aspiration hazard: Not classified

Based on available data, the classification criteria are not met

#### 11.2 <u>Information on other hazards</u>

Potential adverse human health effects and symptoms

#### 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Acute aquatic toxicity: Not classified Chronic aquatic toxicity: Not classified

Dimethyl sulfoxide (67-68-5)		
LC50 fish	25000 mg/l 96 h, Danio rerio	
EC50 daphnia	24600 mg/l 48 h, Daphnia magna	
ErC50 algae	17000 mg/l 72 h, Raphidocelis subcapitata	
Methanol (67-56-1)		
LC50 fish	15400 mg/l 96 h, Lepomis macrochirus	
EC50 daphnia	18260 mg/l 96 h, Daphnia magna	
ErC50 algae	~ 22000 mg/l 96 h. Raphidocelis subcapitata	

## 12.2 Persistence and degradability

Dimethyl sulfoxide (67-68-5)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	31 %, 28 d
Methanol (67-56-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	97 %, 20 d

#### 12.3 Bioaccumulation

Dimethyl sulfoxide (67-68-5)		
Partition coefficient n-octanol/water (Log Pow) -1,35 (20 °C)		
Methanol (67-56-1)		
Partition coefficient n-octanol/water (Log Pow)	-0,77 (20 °C)	

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 12.4 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6 Endocrine disrupting properties

No additional information available

#### 12.7 Other adverse effects

No additional information available.

#### 13 DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national

regulations.

Waste treatment methods: Do not empty into drains. Dispose of this material and its container in

a safe way.

Waste code: The waste code number according to the Ordinance on the European

Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be

gleaned separately from each waste producer.

#### 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

## 14.1 UN number or ID number

UN-No. (ADR):

UN-No. (IMDG):

Not applicable

Not applicable

UN-No. (IATA):

Not applicable

#### 14.2 <u>UN proper shipping name</u>

Proper Shipping Name (ADR): Not applicable Proper Shipping Name (IMDG): Not applicable Proper Shipping Name (IATA): Not applicable

#### 14.3 Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR): Not applicable

**IMDG** 

Transport hazard class(es) (IMDG): Not applicable

**IATA** 

Transport hazard class(es) (IATA): Not applicable

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## **14.4 14.4. Packing group**

Packing group (ADR): Not applicable Packing group (IMDG): Not applicable Packing group (IATA): Not applicable

## 14.5 Environmental hazards

Dangerous for the environment: No Marine pollutant: No

Other information: No supplementary information available

## 14.6 **Special precautions for user**

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

## 15 REGULATORY INFORMATION

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

## **EU** regulations

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

## 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

#### 16 OTHER INFORMATION

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND

OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version: -

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)

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

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IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

## Full text of H- and EUH-phrases:

	^
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs
H371	May cause damage to organs

## Notification:

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

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



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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## **METHYLATION REAGENT**

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

#### 1.1 **Product identifier**

Product Name: Methylation Reagent

Catalog #: Component of the kit mentioned on the first page

#### 1.2 Intended Use

Laboratory reagent / Immunoassay. The product is intended for professional use.

#### 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: products.support@diasource.be

### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 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

#### REGULATION (EC) No 1272/2008

Flammable liquids, Category 2, H225

Aspiration hazard, Category 1, H304

Skin corrosion/irritation, Category 2, H315

Acute toxicity (inhalation), Category 2, H330

Specific target organ toxicity – Single exposure, Category 3, Narcosis, H336

Carcinogenicity, Category 1B, H350

Reproductive toxicity, Category 2, H361f

Specific target organ toxicity - Single exposure, Category 1, H370

Specific target organ toxicity - Repeated exposure, Category 2, H373

Hazardous to the aquatic environment - Chronic Hazard, Category 2,H411

#### 2.2 Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms: Signal word: Danger

Hazardous ingredients: Hexane, branched and linear, (Trimethylsilyl)diazomethane

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### **Hazard statements:**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H361f Suspected of damaging fertility.

H370 Causes damage to organs (lungs, inhalation).

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting.

## **Precautionary statements:**

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 - Immediately call a POISON CENTER or doctor.

P331 Do NOT induce.

## Reduced labelling (contents of the package $\leq$ 125 ml) according to Regulation (EC) No. 1272/2008



#### **Hazard pictograms:**

Signal word: Danger

Hazardous ingredients: Hexane, branched and linear, (Trimethylsilyl)diazomethane

#### **Hazard statements:**

H304 May be fatal if swallowed and enters airways. H315 - Causes skin irritation.

H330 Fatal if inhaled. H350 May cause cancer.

H361f Suspected of damaging fertility.

H370 Causes damage to organs (lungs, inhalation).

#### **Precautionary statements:**

P201 Obtain special instructions before use. P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 - Immediately call a POISON CENTER or doctor.

P331 Do NOT induce..

#### 2.3 Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine

disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated

Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hexane, branched and linear	(CAS no) 92112-69-1 (EC no) 295-570-2 (EC index no) 601-037-00-0, 601-007-00-7	67	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 2, H411
(Trimethylsilyl)diazomethane	(CAS no) 18107-18-1 (EC no) 605-915-4	33	Acute Tox. 2 (Inhalation), H330 Carc. 1B, H350 STOT SE 1 (Lungs) (Inhalation), H370

Full t Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor ext of H-statements: see section 16.

### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

First-aid measures general: IF exposed or concerned: Call a POISON CENTER or doctor.

If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery

position.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a POISON

CENTER/doctor.

First-aid measures after skin contact: Take off immediately all contaminated clothing. IF ON SKIN:

Wash with plenty of soap and water.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing

First-aid measures after ingestion: Do NOT induce vomiting - aspiration hazard. Pneunomia and

pulmonary oedema possible. Rinse mouth. Drink water as a precaution. Immediately call a POISON CENTER/doctor .

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

Symptoms/effects general: May cause cancer. Suspected of damaging fertility. May cause

damage to organs throughprolonged or repeated exposure.

Symptoms/effects after inhalation: Fatal if inhaled. May cause drowsiness or dizziness. Causes

damage to organs (lungs, inhalation).

Symptoms/effects after skin contact: Causes skin irritation.

Symptoms/effects after ingestion: May be fatal if swallowed and enters airways.

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

Treat symptomatically.

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide. Dry extinguishing powder. Water spray. For a

significant fire: Alcohol resistant foam.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Highly flammable liquid and vapour.

Explosion hazard: May form flammable/explosive vapour-air

mixture.

Hazardous decomposition products in case of fire: Toxic gases may be formed. Carbon dioxide.

Carbon monoxide. Sulphur oxides.

**5.3** Advice for firefighters

Firefighting instructions: Prevent firefighting water from entering the environment. Use

water spray or fog for cooling exposed containers.

Protection during firefighting: Use a self-contained breathing apparatus and also a protective

suit.

#### 6 ACCIDENTAL RELEASE MEASURES

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

General measures: Provide adequate ventilation. Remove ignition sources. Use

special care to avoid static electric charges. No open flames. No smoking. Avoid contact with skin and eyes. Do not breathe

vapours/spray.

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Use personal protective equipment as required. In case of

inadequate ventilation wear respiratory protection.

#### **6.2** Environmental precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up: Wipe up with absorbent material (for example cloth). Soak up

spills with inert solids, such as clay or diatomaceous earth as soon as possible. Clean preferably with a detergent - Avoid the use of solvents. Dispose of in accordance with relevant local

regulations.

#### 6.4 Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapours are

flammable.

Precautions for safe handling: Provide good ventilation in process area to prevent formation of

vapour. Remove all sources of ignition. No open flames. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe

vapour/aerosol.

Hygiene measures: Handle in accordance with good industrial hygiene and safety

procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before

reuse.

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

Technical measures: Proper grounding procedures to avoid static electricity should

be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions: Store in original container. Keep container tightly closed. Store

in a cool, well-ventilated place. Keep in fireproof place. Protect from direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store

locked up.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs. Keep

away from oxidising agents and strongly alkaline and strongly

acidic materials to prevent the possibility of exothermic

reaction.

#### 7.3 Specific end use(s)

Laboratory reagent, Immunoassays.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Hexane, branched and linear (92112-69-1)		
Austria	Local name	Hydrocarbons vapour
Austria	MAK (OEL TWA) (ppm)	200 ppm (Mixtures of hydrocarbons: aromatic hydrocarbons < 1 %, n-hexane < 5 %, cyclohexanes/iso- hexanes < 25 %)
Austria	MAK (OEL TWA) (ppm)	170 ppm (Mixtures of hydrocarbons: aromatic hydrocarbons < 1 %, n-hexane < 5 %, cyclohexanes/iso- hexanes ≥ 25 %)
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	700 mg/m³ aliphatic hydrocarbons (C6-C8)
Germany	TRGS 900 Remark	2(II), AGS

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

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n-Hexane (110-	-54-3)	
EU	Local name	n-Hexane
EU	IOELV TWA (mg/m³)	72 mg/m³
EU	IOELV TWA (ppm)	20 ppm
Austria	Local name	n-Hexan
Austria	MAK (OEL TWA) (mg/m³)	72 mg/m³
Austria	MAK (OEL TWA) (ppm)	20 ppm
Austria	MAK (OEL STEL) (mg/m³)	288 mg/m³
Austria	MAK (OEL STEL) (ppm)	80 ppm
Belgium	Local name	n-Hexaan # n-Hexane
Belgium	OEL TWA (mg/m³)	72 mg/m³
Belgium	OEL TWA (ppm)	20 ppm
Germany	TRGS 900 Local name	n-Hexan
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	180 mg/m³
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	50 ppm
Germany	TRGS 900 Remark	8(II),DFG,EU,Y
Germany	TRGS 903 (BGW)	5 mg/l U, b parameter: 2,5-Hexanedione plus 4,5-Dihydroxy-2- hexanone (after hydrolysis)
Luxembourg	Local name	n-Hexane
Luxembourg	OEL TWA (mg/m³)	72 mg/m³
Luxembourg	OEL TWA (ppm)	20 ppm
Switzerland	Local name	Hexane (n-Hexane)
Switzerland	MAK (mg/m³)	180 mg/m³
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m³)	1440 mg/m³
Switzerland	KZGW (ppm	400 ppm
Switzerland	Notation (CH)	R2 <sup>F</sup> , SSc, H, B
Switzerland	BAT Values	5 mg/l, U, b Parameter: 2,5-Hexanedione plus 4,5-Dihydroxy- 2- hexanone

#### **Exposure controls Appropriate engineering controls:**

Provide local exhaust or general room ventilation to minimize vapour concentrations.

### **Hand protection:**

Wear suitable gloves (EN 374). Nitrile rubber,  $\geq 0.4$  mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**

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Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing. Flame retardant antistatic protective clothing.

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type A (EN 14387).

#### **Environmental exposure controls:**

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Avoid release to the environment.



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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:

Colour:

Odour:

Melting point/freezing point:

Liquid
Yellow, clear
No data available
No data available

Boiling point or initial boiling point and boiling range: 96 °C

Flammability: Highly flammable liquid and vapour

Lower and upper explosion limit: No data available

Flash point: -23 °C

Auto-ignition temperature:

Decomposition temperature:

PH:

No data available

Vater: insoluble

Not applicable

Vapour pressure:

No data available

Density and/or relative density: 0.718

Relative vapour density:

Particle size:

No data available

Not applicable

#### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

Explosive properties: May form flammable/explosive vapour-air mixture.

Oxidising properties: No oxidising properties.

9.2.2 Other safety characteristics No additional information available.

No additional information available

### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.2 Chemical stability

Stable under use and storage conditions as recommended in section 7.

## 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4 Conditions to avoid

Avoid contact with hot surfaces. Heat. Open flame. Sparks. Ignition sources.

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

Strong oxidizing agents. Strong bases. Strong acids.

#### 10.6 Hazardous decomposition products

May release flammable gases. In case of fire: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides. Silicon dioxide.

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### TOXICOLOGICAL INFORMATION

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Fatal if inhaled.

Hexane, branched and linear (92112-69-1)		
LD50 oral rat	1600 mg/kg (test material: n-hexane (110-54-3))	
LD50 dermal rabbit	> 2000 mg/kg (test material: n-hexane (110-54-3))	
LC50 inhalation rat (Vapours)	> 17600 mg/m³ air, 24 h (test material: n-hexane (110-54-3))	

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/irritation: Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitization: Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified

Based on available data, the classification criteria are not met

Carcinogenicity: May cause cancer

Reproductive toxicity: Suspected of damaging fertility

Causes damage to organs (lungs, inhalation). May cause (single

Specific target organ toxicity:

drowsiness or dizziness exposure)

Specific target organ toxicity:

(repeated exposure)

May cause damage to organs through prolonged or repeated

exposure

Aspiration hazard: May be fatal if swallowed and enters airways

#### 11.2 Information on other hazards

Potential adverse human health:

effects and symptoms

Based on available data, the classification criteria are not met

#### **ECOLOGICAL INFORMATION** 12

#### 12.1 Toxicity

Acute aquatic toxicity: Not classified

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects

Hexane, branched and linear (92112-69-1)		
LL50 fish	12 mg/l 96 h, Oncorhynchus mykiss (test material: hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	
EL50 daphnia	3.0 mg/l 48 h, Daphnia magna (test material: hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	
ErL50 algae	55 mg/l 72 h, Raphidocelis subcapitata (test material: hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	

#### 12.2 Persistence and degradability

Hexane, branched and linear (92112-69-1)		
Persistence and degradability Readily biodegradable.		
Biodegradation	98 %, 28 d (test material: hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 12.3 Bioaccumulation

Hexane, branched and linear (92112-69-1)		
Partition coefficient n-octanol/water (Log Pow)	4.11 (20 °C) (test material: n-hexane (110-54-3))	

#### 12.4 Mobility in soil

No additional information available.

#### 12.5 Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6 Endocrine disrupting properties

No additional information available

### 12.7 Other adverse effects

No additional information available.

### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national

regulations.

Waste treatment methods: Do not empty into drains. Dispose of this material and its container in

a safe way.

Waste code: The waste code number according to the Ordinance on the European

Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be

gleaned separately from each waste producer.

#### 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

#### 14.1 UN number or ID number

UN-No. (ADR):

UN-No. (IMDG):

Not applicable

UN-No. (IATA):

Not applicable

#### 14.2 UN proper shipping name

Proper Shipping Name (ADR): Not applicable Proper Shipping Name (IMDG): Not applicable Proper Shipping Name (IATA): Not applicable

#### 14.3 <u>Transport hazard class(es)</u>

**ADR** 

Transport hazard class(es) (ADR): Not applicable

IMDG

Transport hazard class(es) (IMDG): Not applicable

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### **IATA**

Transport hazard class(es) (IATA): Not applicable

14.4 <u>14.4.</u> Packing group

Packing group (ADR):

Packing group (IMDG):

Packing group (IATA):

Not applicable

Not applicable

14.5 Environmental hazards

Dangerous for the environment: No Marine pollutant: No

Other information: No supplementary information available

#### 14.6 Special precautions for user

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

### Air transport

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

#### 15 REGULATORY INFORMATION

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

#### **EU** regulations

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

### 16 OTHER INFORMATION

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND

OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version: -

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

## Full text of H- and EUH-phrases:

	•	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Flam. Liq. 2	Flammable liquids, Category 2	
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1	
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2	
H225	Highly flammable liquid and vapour	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H331	Toxic if inhaled	
H370	Causes damage to organs	
H371	May cause damage to organs	

#### Notification:

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

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

#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

### **STANDARDS**

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

#### 1.1 Product identifier

Product Name: Standards

Catalog #: Component of the kit mentioned on the first page

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

Laboratory reagent / Immunoassay. The product is intended for professional use.

#### 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: products.support@diasource.be

#### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 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

REGULATION (EC) No 1272/2008

Corrosive to metals, Category 1, H290

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

REGULATION (EC) No 1272/2008

**Hazard pictograms:** 

Signal word: Warning

**Hazard statements:** 

H290 May be corrosive to metals.

#### **Precautionary statements:**

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosion resistant container with a resistant inner liner.

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## Reduced labelling (contents of the package $\leq$ 125 ml) according to Regulation (EC) No. 1272/2008

Hazard pictograms : Signal word : Hazard statements (CLP) : Precautionary statements (CLP) : -

#### 2.3 Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/6.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Classification according to
			<b>Regulation</b> (EC) No. 1272/2008 [CLP]
hydrochloric acid %	(EC-No) 231-595-7	< 1	Met. Corr. 1, H290
	(EC Index-No) 017-002-01-X		Skin Corr. 1B, H314
			Eye Dam. 1, H318
			STOT SE 3, H335

Name	Product identifier	Specific concentration limits according to
		Regulation (EC) No. 1272/2008 [CLP]
hydrochloric acid %	(EC-No) 231-595-7	$(10 \le C < 25)$ Skin Irrit. 2, H315
	(EC Index-No) 017-002-01-X	$(10 \le C < 25)$ Eye Irrit. 2, H319
		$(10 \le C \le 100)$ STOT SE 3, H335
		$(25 \le C \le 100)$ Skin Corr. 1B, H314

For the full text of the H-Statements mentioned in this section, see section 16.

#### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

First-aid measures general: Get medical advice/attention if you feel unwell. If possible

show him this sheet. Failing this,

show him the packaging or label. Never give anything by mouth

to an unconscious person.

Place the affected person in the recovery position.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact: Take off immediately all contaminated clothing. Gently wash

with plenty of soap and water.

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Drink plenty of water

as a precaution.

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

Symptoms/effects: Not expected to present a significant hazard under anticipated

conditions of normal use.

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

Treat symptomatically.

#### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Adapt extinguishing agents to the environment. Carbon dioxide.

Foam. Dry extinguishing powder. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire: Toxic gases may be formed. Carbon dioxide.

Carbon monoxide. Hydrogen chloride. Chlorine.

#### 5.3 Advice for fire fighters

Firefighting instructions: Prevent firefighting water from entering the environment. Use

water spray or fog for cooling exposed containers.

Protection during firefighting: Use a self-contained breathing apparatus and also a protective

suit.

#### 6 ACCIDENTAL RELEASE MEASURES

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

General measures: Stop leak if safe to do so. Ensure adequate air ventilation.

Avoid contact with skin and eyes. Do not breathe

vapours/spray.

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Use personal protective equipment as required. In case of

inadequate ventilation wear respiratory protection.

#### **Environmental Precautions**

Prevent entry to sewers and public waters.

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

Methods for cleaning up: Absorb spillage to prevent material damage. Wipe up with

absorbent material (for example cloth). Soak up spills with inert

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Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

#### 6.4 Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal

protective equipment. Avoid contact with skin and eyes. Do not

breathe vapour/aerosol.

Hygiene measures: Handle in accordance with good industrial hygiene and safety

procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

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

Storage conditions: Store in corrosive resistant container with a resistant inner liner.

Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight.

Keep out of frost.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs.

Incompatible materials: Metals.

#### 7.3 Specific Use(s)

Laboratory reagent, Immunoassays.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Hydrochloric acid % (EC 231-595-7)		
EU	Local name	Hydrogen chloride
EU	IOELV TWA (mg/m³)	8 mg/m³
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (mg/m³)	15 mg/m³
EU	IOELV STEL (ppm)	10 ppm
Austria	Local name	Chlorwasserstoff
Austria	MAK (OEL TWA) (mg/m³)	8 mg/m³
Austria	MAK (OEL TWA) (ppm)	5 ppm
Austria	MAK (OEL STEL) (mg/m³)	15 mg/m³
Austria	MAK (OEL STEL) (ppm)	10 ppm
Belgium	Local name	Hydrogène (chlorure d') # Waterstofchloride
Belgium	OEL TWA (mg/m³)	8 mg/m³
Belgium	OEL TWA (ppm)	5 ppm
Belgium	OEL STEL (mg/m³)	15 mg/m³
Belgium	OEL STEL (ppm)	10 ppm
Germany	TRGS 900 Local name	Hydrogenchlorid

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Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	3 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	2 ppm
Germany	TRGS 900 Remark	2(I), DFG, EU, Y
Luxembourg	Local name	Chlorure d'hydrogène
Luxembourg	OEL TWA (mg/m³)	8 mg/m³
Luxembourg	OEL TWA (ppm)	5 ppm
Luxembourg	OEL STEL (mg/m³)	15 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	10 ppm
Switzerland	Local name	Acide chlorhydrique / Chlorwasserstoff [Salzsäure]
Switzerland	MAK (mg/m³)	3 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m³)	6 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	4 ppm
Switzerland	Notation	SSC

Hydrochloric acid % (EC 231-595-7)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation 15 mg/m³	
Long-term - local effects, inhalation 8 mg/m³	

Hydrochloric acid % (EC 231-595-7)	
DNEL/DMEL (General population)	
Acute - local effects, inhalation	15 mg/m³
Long-term - local effects, inhalation 8 mg/m³	

### 8.2 Exposure controls

#### **Appropriate engineering controls:**

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### **Hand protection:**

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**

Wear safety glasses (EN 166).

#### **Skin and body protection:**

Wear suitable protective clothing.

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

#### **Environmental exposure controls:**

Avoid release to the environment.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state : Liquid

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Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

Colour : No data available Odour : No data available Melting point/freezing point : No data available Boiling point or initial boiling point and boiling range : No data available Flammability : No data available Lower and upper explosion limit : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available pН Kinematic viscosity : No data available

Solubility : Water: completely miscible

Partition coefficient n-octanol/water (log value)

Vapour pressure

Density and/or relative density

Relative vapour density

Particle size

: No data available
: No data available
: No data available
: No data available

#### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

Explosive properties : No explosive properties Oxidising properties : No oxidising properties

9.2.2 Other safety characteristics
No additional information available.

#### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2 Chemical Stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3 Possibility of hazardous reactions

May be corrosive to metals.

### 10.4 Conditions to Avoid

High temperatures.

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

Strong oxidizing agents. Strong bases. Strong acids. Metals.

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

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Carbon dioxide. Carbon monoxide. Hydrogen chloride. Chlorine.

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

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#### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Not classified

Based on available data, the classification criteria are not met

 Hydrochloric acid ... % (EC 231-595-7)

 LC50 inhalation rat
 7051 mg/m³ 30 min

Skin corrosion/irritation: Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation: Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitization: Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified

Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity:

Not classified

(single exposure)

Based on available data, the classification criteria are not met

Specific target organ toxicity:

Not classified

(repeated exposure)

Based on available data, the classification criteria are not met

Aspiration hazard: Not classified

Based on available data, the classification criteria are not met

11.2 Additional information

Potential adverse human health:

effects and symptoms

Based on available data, the classification criteria are not met

#### 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Hydrochloric acid % (EC 231-595-7)	
LC50 Fish	pH 3.25 – 3.5 96 h, Lepomis macrochirus
EC50 Crustacea	pH 4.92 48 h, Daphnia magna
EC50 Algae	pH 4.7 72 h, Chlorella vulgaris

#### 12.2 Persistence and degradability

No additional information available.

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### 12.3 Bioaccumulation

No additional information available.

#### 12.4 Mobility in soil

No additional information available.

## 12.5 Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6 Endocrine disrupting properties

No additional information available.

#### 12.7 Other adverse effects

No additional information available

#### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national

regulations.

Waste treatment methods: Do not empty into drains. Dispose of this material and its

container in a safe way.

Waste code: The waste code number according to the Ordinance on the

European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste

producer.

#### 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA.

#### 14.1 UN number or ID number

UN-No. (ADR):

UN-No. (IMDG):

Not applicable

UN-No. (IATA):

Not applicable

#### 14.2 <u>UN proper shipping name</u>

Proper Shipping Name (ADR): Not applicable
Proper Shipping Name (IMDG): Not applicable
Proper Shipping Name (IATA): Not applicable

#### 14.3 Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR): Not applicable

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

#### **IMDG**

Transport hazard class(es) (IMDG): Not applicable

**IATA** 

Transport hazard class(es) (IATA): Not applicable

14.4 Packing group

Packing group (ADR):

Not applicable
Packing group (IMDG):

Not applicable
Not applicable

14.5 Environmental hazards

Dangerous for the environment: No Marine pollutant: No

Other information : No supplementary information available

#### 14.6 Special precautions for user

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

#### 15 REGULATORY INFORMATION

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

#### **EU** regulations

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

#### 16 OTHER INFORMATION

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT

AND OF THE COUNCIL of 16 December 2008 on classification, labelling

and packaging of substances and mixtures, amending and repealing

Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

1907/2006.

Abbreviations and acronyms:

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### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

### Full text of H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

## Notification:

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

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

#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## **CONTROLS**

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

#### 1.1 **Product identifier**

Product Name: Controls

Catalog #: Component of the kit mentioned on the first page

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

Laboratory reagent / Immunoassay. The product is intended for professional use.

#### 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: products.support@diasource.be

#### 1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 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

REGULATION (EC) No 1272/2008

Corrosive to metals, Category 1, H290

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

REGULATION (EC) No 1272/2008

**Hazard pictograms:** 

Signal word: Warning

**Hazard statements:** 

H290 May be corrosive to metals.

## **Precautionary statements:**

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosion resistant container with a resistant inner liner.

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#### MATERIEL SAFETY DATA SHEET

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

Product Name: 5-HIAA ELISA Catalog #: KAPL10-1900

## Reduced labelling (contents of the package $\leq$ 125 ml) according to Regulation (EC) No. 1272/2008

Hazard pictograms : Signal word : Hazard statements (CLP) : Precautionary statements (CLP) : -

#### 2.3 Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/6.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Name	Product identifier	%	Classification according to
			<b>Regulation (EC) No. 1272/2008 [CLP]</b>
hydrochloric acid %	(EC-No) 231-595-7	< 1	Met. Corr. 1, H290
	(EC Index-No) 017-002-01-X		Skin Corr. 1B, H314
			Eye Dam. 1, H318
			STOT SE 3, H335

Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]
hydrochloric acid %	(EC-No) 231-595-7	$(10 \le C < 25)$ Skin Irrit. 2, H315
injuracinicina uciu viv y	,	$(10 \le C < 25)$ Eye Irrit. 2, H319
	, ,	$(10 \le C \le 100)$ STOT SE 3, H335
		$(25 \le C \le 100)$ Skin Corr. 1B, H314

For the full text of the H-Statements mentioned in this section, see section 16.

#### 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

First-aid measures general: Get medical advice/attention if you feel unwell. If possible

show him this sheet. Failing this,

show him the packaging or label. Never give anything by mouth

to an unconscious person.

Place the affected person in the recovery position.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact: Take off immediately all contaminated clothing. Gently wash

with plenty of soap and water.

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First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Drink plenty of water

as a precaution.

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

Symptoms/effects: Not expected to present a significant hazard under anticipated

conditions of normal use.

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

Treat symptomatically.

#### 5 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Adapt extinguishing agents to the environment. Carbon dioxide.

Foam. Dry extinguishing powder. Water spray.

Unsuitable extinguishing media: Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire: Toxic gases may be formed. Carbon dioxide.

Carbon monoxide. Hydrogen chloride. Chlorine.

#### 5.3 Advice for fire fighters

Firefighting instructions: Prevent firefighting water from entering the environment. Use

water spray or fog for cooling exposed containers.

Protection during firefighting: Use a self-contained breathing apparatus and also a protective

suit.

#### 6 ACCIDENTAL RELEASE MEASURES

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

General measures: Stop leak if safe to do so. Ensure adequate air ventilation.

Avoid contact with skin and eyes. Do not breathe

vapours/spray.

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Use personal protective equipment as required. In case of

inadequate ventilation wear respiratory protection.

#### **Environmental Precautions**

Prevent entry to sewers and public waters.

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

Methods for cleaning up: Absorb spillage to prevent material damage. Wipe up with

absorbent material (for example cloth). Soak up spills with inert

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solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

#### 6.4 Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

#### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal

protective equipment. Avoid contact with skin and eyes. Do not

breathe vapour/aerosol.

Hygiene measures: Handle in accordance with good industrial hygiene and safety

procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

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

Storage conditions: Store in corrosive resistant container with a resistant inner liner.

Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight.

Keep out of frost.

Prohibitions on mixed storage: Keep away from food, drink and animal feedingstuffs.

Incompatible materials: Metals.

#### 7.3 Specific Use(s)

Laboratory reagent, Immunoassays.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Hydrochloric acid % (EC 231-595-7)		
EU	Local name	Hydrogen chloride
EU	IOELV TWA (mg/m³)	8 mg/m³
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (mg/m³)	15 mg/m³
EU	IOELV STEL (ppm)	10 ppm
Austria	Local name	Chlorwasserstoff
Austria	MAK (OEL TWA) (mg/m³)	8 mg/m³
Austria	MAK (OEL TWA) (ppm)	5 ppm
Austria	MAK (OEL STEL) (mg/m³)	15 mg/m³
Austria	MAK (OEL STEL) (ppm)	10 ppm
Belgium	Local name	Hydrogène (chlorure d') # Waterstofchloride
Belgium	OEL TWA (mg/m³)	8 mg/m³
Belgium	OEL TWA (ppm)	5 ppm
Belgium	OEL STEL (mg/m³)	15 mg/m³
Belgium	OEL STEL (ppm)	10 ppm
Germany	TRGS 900 Local name	Hydrogenchlorid

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Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	3 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	2 ppm
Germany	TRGS 900 Remark	2(I), DFG, EU, Y
Luxembourg	Local name	Chlorure d'hydrogène
Luxembourg	OEL TWA (mg/m³)	$8 \text{ mg/m}^3$
Luxembourg	OEL TWA (ppm)	5 ppm
Luxembourg	OEL STEL (mg/m³)	15 mg/m³
Luxembourg	OEL STEL (ppm)	10 ppm
Switzerland	Local name	Acide chlorhydrique / Chlorwasserstoff [Salzsäure]
Switzerland	MAK (mg/m³)	$3 \text{ mg/m}^3$
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m³)	6 mg/m³
Switzerland	KZGW (ppm)	4 ppm
Switzerland	Notation	SSC

Hydrochloric acid % (EC 231-595-7)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation 15 mg/m³	
Long-term - local effects, inhalation 8 mg/m³	

Hydrochloric acid % (EC 231-595-7)	
DNEL/DMEL (General population)	
Acute - local effects, inhalation	15 mg/m³
Long-term - local effects, inhalation 8 mg/m³	

### 8.2 Exposure controls

#### **Appropriate engineering controls:**

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### **Hand protection:**

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing.

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

#### **Environmental exposure controls:**

Avoid release to the environment.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state : Liquid

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Colour : No data available Odour : No data available Melting point/freezing point : No data available Boiling point or initial boiling point and boiling range : No data available Flammability : No data available Lower and upper explosion limit : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available pН Kinematic viscosity : No data available

Solubility : Water: completely miscible

Partition coefficient n-octanol/water (log value) : Not applicable
Vapour pressure : No data available
Density and/or relative density : No data available
Relative vapour density : No data available
Particle size : Not applicable

#### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

Explosive properties : No explosive properties Oxidising properties : No oxidising properties

9.2.2 Other safety characteristics
No additional information available.

#### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2 Chemical Stability

Stable under use and storage conditions as recommended in section 7.

### 10.3 Possibility of hazardous reactions

May be corrosive to metals.

#### 10.4 Conditions to Avoid

High temperatures.

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

Strong oxidizing agents. Strong bases. Strong acids. Metals.

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

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Carbon dioxide. Carbon monoxide. Hydrogen chloride. Chlorine.

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#### 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Not classified

Based on available data, the classification criteria are not met

 Hydrochloric acid ... % (EC 231-595-7)

 LC50 inhalation rat
 7051 mg/m³ 30 min

Skin corrosion/irritation: Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation: Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitization: Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified

Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity:

Not classified

(single exposure)

Based on available data, the classification criteria are not met

Specific target organ toxicity:

Not classified

(repeated exposure)

Based on available data, the classification criteria are not met

Aspiration hazard: Not classified

Based on available data, the classification criteria are not met

11.2 Additional information

Potential adverse human health:

effects and symptoms

Based on available data, the classification criteria are not met

#### 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Hydrochloric acid % (EC 231-595-7)	
LC50 Fish	pH 3.25 – 3.5 96 h, Lepomis macrochirus
EC50 Crustacea	pH 4.92 48 h, Daphnia magna
EC50 Algae	pH 4.7 72 h, Chlorella vulgaris

#### 12.2 Persistence and degradability

No additional information available.

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#### 12.3 Bioaccumulation

No additional information available.

#### 12.4 Mobility in soil

No additional information available.

## 12.5 Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6 Endocrine disrupting properties

No additional information available.

#### 12.7 Other adverse effects

No additional information available

#### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national

regulations.

Waste treatment methods: Do not empty into drains. Dispose of this material and its

container in a safe way.

Waste code: The waste code number according to the Ordinance on the

European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste

producer.

#### 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA.

#### 14.1 <u>UN number or ID number</u>

UN-No. (ADR):

UN-No. (IMDG):

Not applicable

UN-No. (IATA):

Not applicable

#### 14.2 <u>UN proper shipping name</u>

Proper Shipping Name (ADR): Not applicable
Proper Shipping Name (IMDG): Not applicable
Proper Shipping Name (IATA): Not applicable

#### 14.3 Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR): Not applicable

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#### **IMDG**

Transport hazard class(es) (IMDG): Not applicable

**IATA** 

Transport hazard class(es) (IATA): Not applicable

14.4 Packing group

Packing group (ADR):

Packing group (IMDG):

Not applicable

Packing group (IATA):

Not applicable

14.5 Environmental hazards

Dangerous for the environment: No Marine pollutant: No

Other information : No supplementary information available

#### 14.6 Special precautions for user

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

#### 15 REGULATORY INFORMATION

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

#### **EU** regulations

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

## 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

#### 16 OTHER INFORMATION

Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT

AND OF THE COUNCIL of 16 December 2008 on classification, labelling

and packaging of substances and mixtures, amending and repealing

Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No

1907/2006.

Abbreviations and acronyms:

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ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

### Full text of H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Notification:

Printing date

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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