

**The Safety Date Sheet is usable for:****KAPL10-0700****Metanephrite Plasma ELISA Fast Track**

Refer to the instructions for the full list of product components

**Single components with dangerous ingredients**     :

REF	Name	Symbol	Version
BA E-0040	Enzyme Conjugate	 CONJUGATE	1.0
BA E-0080	Stop Solution	- STOP-SOLN	1.0
BA E-8301	Standard A	- STANDARD A	1.0
BA E-8302	Standard B	- STANDARD B	1.0
BA E-8303	Standard C	- STANDARD C	1.0
BA E-8304	Standard D	- STANDARD D	1.0
BA E-8305	Standard E	- STANDARD E	1.0
BA E-8306	Standard F	- STANDARD F	1.0
BA E-8351	Control 1	- CONTROL 1	1.0
BA E-8352	Control 2	- CONTROL 2	1.0
BA R-8312	Acylation Concentrate	  ACYL-CONC	1.0
BA R-8313	Assay Buffer	 ASSAY-BUFF	1.0
BA R-8326	Elution Buffer	 ELUTION-BUFF	1.0

Read the MSDS for the component on the following pages.

**Not listed single components contain no hazardous substances in concentrations to be declared, a labelling is not required.**

## 1 Identification of substance/mixture and company

### 1.1 Product identifier

Product form : Mixture  
Product name : Enzyme Conjugate CONJUGATE  
Catalog # : BA E-0040 REF

### 1.2 Relevant identified uses of substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

Use of the substance/mixture : Laboratory reagent, Immunoassays  
Use by professionals

#### 1.2.2 Uses advised against

No additional information available

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

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](mailto:products.support@diasource.be)

### 1.4 Emergency telephone number

DIAsource (only office hours) : +32 (0)10/84.99.23  
Centre Anti-Poisons (BE) : 070 245 245

Please refer to your local Anti-Poison Center!

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 (CLP)

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.  
(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

### 2.2 Label element

Labelling according to Regulation (EC) N° 1272/2008 (CLP)

Hazard symbol (CLP) :



Signal word (CLP) : Warning

Hazard statement (CLP) : H317 May cause an allergic skin reaction.

Precaution statement (CLP) : P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves.

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

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

P501 Dispose of contents/container to an authorised waste collection point.

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

Hazard symbol (CLP) :



Signal word (CLP) : Warning

Hazard statement (CLP) : H317 May cause an allergic skin reaction.

Precaution statement (CLP) : P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves.

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

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

P501 Dispose of contents/container to an authorised waste collection point.

### 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]
2-methyl-2H-isothiazol-3-one	(CAS-No) 2682-20-4 (EC-No) 220-239-6 (EC Index-No) 613-326-00-9 (REACH No) 01-2120764690-50-xxxx	0.01	Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]
2-methyl-2H-isothiazol-3-one	(CAS-No) 2682-20-4 (EC-No) 220-239-6 (EC Index-No) 613-326-00-9 (REACH No) 01-2120764690-50-xxxx	(C ≥ 0.0015) Skin Sens. 1A, H317

Full text of H-statements: 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.

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 symptom and effects, both acute and delayed

Symptoms/effects

: May cause an allergic skin reaction.

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

Treat symptomatically.

## 5 Firefighting 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. Sulphur oxides. Nitrogen 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. Ensure adequate air ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray.

#### 6.1.1 For non-emergency personnel

: Evacuate unnecessary personnel.

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

## Prohibitions on mixed storage

: Keep away from food, drink and animal feeding stuffs.

**7.3 Specific end use(s)**

Laboratory reagent, Immunoassays

**8 Exposure controls/personnel protection****8.1 Control parameters****2-methyl-2H-isothiazol-3-one (CAS N° 2682-20-4)****DNEL/DMEL (Workers)**

Long-term - local effects, inhalation	0.021 mg/m <sup>3</sup>
Acute - local effects, inhalation	0.046 mg/m <sup>3</sup>

**DNEL/DMEL (General population)**

Long-term - systemic effects, oral	0.027 mg/kg bodyweight/day
Acute - systemic effects, oral	0.053 mg/kg bodyweight/day
Long-term - local effects, inhalation	0.021 mg/m <sup>3</sup>
Acute - local effects, inhalation	0.043 mg/m <sup>3</sup>

**PNEC (Water)**

PNEC aqua (freshwater)	3.39 µg/l
PNEC aqua (marine water)	3.39 µg/l
PNEC aqua (intermittent, freshwater)	3.39 µg/l
PNEC aqua (intermittent, marine water)	3.39 µg/l

**PNEC (Soil)**

PNEC soil	0.047 mg/kg dwt
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**PNEC (STP)**

PNEC sewage treatment plant	0.23 mg/l
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**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	: No data available
Odor	: 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
pH	: No data available
Kinematic viscosity	: No data available
Solubility	: Completely soluble in Water
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

None under normal use.

### 10.4 Conditions to avoid

High temperatures.

### 10.5 Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

### 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.

## 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
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2-methyl-2H-isothiazol-3-one (CAS N° 2682-20-4)	
LD50 oral rat	120 mg/kg
LD50 dermal rat	242 mg/kg
LC50 inhalation rat	0.1 mg/l/4h

Acute toxicity	: Not classified Based on available data, the classification criteria are not met
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Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
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Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
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Respiratory or skin sensitization	: May cause an allergic skin reaction
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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 (single exposure)	:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	:	Not classified 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 Information on other hazards

Potential adverse human health effects and symptoms	:	Based on available data, the classification criteria are not met
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## 12 Ecological information

### 12.1 Toxicity

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

#### 2-methyl-2H-isothiazol-3-one (CAS N° 2682-20-4)

LC50 fish	4.77 mg/l 96 h, Oncorhynchus mykiss
EC50 daphnia	0.934 mg/l 48 h, Daphnia magna
EC50 algae	0.22 mg/l 120 h, Raphidocelis subcapitata
EC50 micro-organisms	41 mg/l 3 h, activated sludge
NOEC fish	4.93 mg/l 98 d, Oncorhynchus mykiss
NOEC daphnia	0.044 mg/l 21 d, Daphnia magna
NOEC algae	0.05 mg/l 120 h, Raphidocelis subcapitata

### 12.2 Persistence and degradability

2-methyl-2H-isothiazol-3-one (CAS N° 2682-20-4)	
Persistence and degradability	Not readily biodegradable
Biodegradation	50 % 29 d (OECD 301 B)

### 12.3 Bioaccumulative potential

2-methyl-2H-isothiazol-3-one (CAS N° 2682-20-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.486 (20 °C)

### 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

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**14.1 UN number or ID number**

UN-No. (ADR) : Not applicable  
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)**

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

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

Not applicable

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

**15.1.2 National regulations**

Comply with applicable local regulations.

**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.

Change 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)
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. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/ irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, Category 1A
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## 1 Identification of substance/mixture and company

### 1.1 Product identifier

Product form : Mixture  
Product name : Stop Solution **STOP-SOLN**  
Catalog # : BA E-0080 **REF**

### 1.2 Relevant identified uses of substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

Use of the substance/mixture : Laboratory reagent, Immunoassays  
Use by professionals

#### 1.2.2 Uses advised against

No additional information available

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

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](mailto:products.support@diasource.be)

### 1.4 Emergency telephone number

DIAsource (only office hours) : +32 (0)10/84.99.23  
Centre Anti-Poisons (BE) : 070 245 245

Please refer to your local Anti-Poison Center!

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 (CLP)

Corrosive to metal, category 1 H290 May be corrosive to metal.

(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage

### 2.2 Label element

Labelling according to Regulation (EC) N° 1272/2008 (CLP)

Hazard symbol (CLP) :



Signal word (CLP) : Warning

Hazard statement (CLP) : H290 May be corrosive to metal

Precaution statement (CLP) : 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

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

Hazard symbol (CLP) : -

Signal word (CLP) : -

Hazard statement (CLP) : -

Precaution statement (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) 2018/605.

### 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]
Sulphuric acid	(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

Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]
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

Full text of H-statements: 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.

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 symptom 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 Firefighting 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 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

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

Prohibitions on mixed storage

: Keep away from food, drink and animal feeding stuffs.

Incompatible materials

: Metals.

#### 7.3 Specific end use(s)

Laboratory reagent, Immunoassays

### 8 Exposure controls/personnel protection

#### 8.1 Control parameters

Sulphuric acid (7664-93-9)		
EU	Local name	Sulphuric acid (mist)
EU	IOEL TWA	0.05 mg/m <sup>3</sup>
Austria	Local name	Schwefelsäure
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	0.1 E mg/m <sup>3</sup>
Austria	MAK (OEL STEL) (mg/m <sup>3</sup> )	0.2 E mg/m <sup>3</sup>
Belgium	Local name	Acide sulfurique (brume) # Zwavelzuur (nevel)
Belgium	OEL TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Belgium	Remark	C
Germany	TRGS 900 Local name	Schwefelsäure
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m <sup>3</sup> )	0.1 E mg/m <sup>3</sup>
Germany	TRGS 900 Remark	1(I), DFG, EU, Y
Luxembourg	Local name	Acide sulfurique (brume)
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Switzerland	Local name	Schwefelsäure
Switzerland	MAK (mg/m <sup>3</sup> )	0.1 e mg/m <sup>3</sup>
Switzerland	KZGW (mg/m <sup>3</sup> )	0.2 e mg/m <sup>3</sup>
Switzerland	Notation	C1# , SSc A

#### 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

: Colorless

Odor

: Odorless

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
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 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 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.

## 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
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Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
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Respiratory or skin sensitization	: Not classified Based on available data, the classification criteria are not met
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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
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Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
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Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
--	--

Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
--	--

Aspiration hazard	: Not classified
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Based on available data, the classification criteria are not met

#### 11.2 Information on other hazards

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

Not required for inorganic substances.

#### 12.3 Bioaccumulative potential

Not required for inorganic substances.

#### 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) : Not applicable  
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)

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

Date of issue: 15.10.2024

Revision date: -

Version/Replaced version: 1.0/-

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 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

**15.1.2 National regulations**

Comply with applicable local regulations.

**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.

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

Date of issue: 15.10.2024

Revision date: -

Version/Replaced version: 1.0/-

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**1 Identification of substance/mixture and company****1.1 Product identifier**

Product form	:	Mixture
Product name	:	Standard A <span style="border: 1px solid black; padding: 2px;">STANDARD A</span>
		Standard B <span style="border: 1px solid black; padding: 2px;">STANDARD B</span>
		Standard C <span style="border: 1px solid black; padding: 2px;">STANDARD C</span>
		Standard D <span style="border: 1px solid black; padding: 2px;">STANDARD D</span>
		Standard E <span style="border: 1px solid black; padding: 2px;">STANDARD E</span>
		Standard F <span style="border: 1px solid black; padding: 2px;">STANDARD F</span>
Catalog #	:	BA E-8301 <span style="border: 1px solid black; padding: 2px;">REF</span>
		BA E-8302 <span style="border: 1px solid black; padding: 2px;">REF</span>
		BA E-8303 <span style="border: 1px solid black; padding: 2px;">REF</span>
		BA E-8304 <span style="border: 1px solid black; padding: 2px;">REF</span>
		BA E-8305 <span style="border: 1px solid black; padding: 2px;">REF</span>
		BA E-8306 <span style="border: 1px solid black; padding: 2px;">REF</span>

**1.2 Relevant identified uses of substance or mixture and uses advised against****1.2.1 Relevant identified uses**

Use of the substance/mixture	:	Laboratory reagent, Immunoassays
		Use by professionals

**1.2.2 Uses advised against**

No additional information available

**1.3 Details of the supplier of the safety data sheet****Supplier/Manufacturer**

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](mailto:products.support@diasource.be)**1.4 Emergency telephone number**

DIAsource (only office hours) : +32 (0)10/84.99.23

Centre Anti-Poisons (BE) : 070 245 245

Please refer to your local Anti-Poison Center!

**2 Hazards identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) N° 1272/2008 (CLP)

Corrosive to metal, category 1 H290 May be corrosive to metal.

(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage.

**2.2 Label element**

Labelling according to Regulation (EC) N° 1272/2008 (CLP)

Hazard symbol (CLP) :



Signal word (CLP) : Warning

Hazard statement (CLP) : H290 May be corrosive to metal

Precaution statement (CLP) : 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

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

Hazard symbol (CLP)	: -
Signal word (CLP)	: -
Hazard statement (CLP)	: -
Precaution statement (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) 2018/605.

## 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]
hydrochloric acid ... %	(EC-No) 231-595-7 (EC Index-No) 017-002-01-X	< 1	Met. Corr. 1, H290 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 (EC Index-No) 017-002-01-X	(10 ≤ C < 25) Skin Irrit. 2, H315 (10 ≤ C < 25) Eye Irrit. 2, H319 (10 ≤ C ≤ 100) STOT SE 3, H335 (25 ≤ C ≤ 100) Skin Corr. 1B, H314

Full text of H-statements: see section16

## 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.
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 symptom and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5 Firefighting 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 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	: 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 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. To maintain product quality, store according to the instructions in the product labeling.

Prohibitions on mixed storage

: Keep away from food, drink and animal feeding stuffs.

Incompatible materials

: Metals.

**7.3 Specific end use(s)**

Laboratory reagent, Immunoassays

**8 Exposure controls/personnel protection****8.1 Control parameters**

Hydrochloric acid ... % (EC 231-595-7)		
EU	Local name	Hydrogen chloride
EU	IOELV TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	10 ppm
Austria	Local name	Chlorwasserstoff
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) (ppm)	5 ppm
Austria	MAK (OEL STEL) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) (ppm)	10 ppm
Belgium	Local name	Hydrogène (chlorure d') # Waterstofchloride
Belgium	OEL TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Belgium	OEL TWA (ppm)	5 ppm
Belgium	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Belgium	OEL STEL (ppm)	10 ppm
Germany	TRGS 900 Local name	Hydrogenchlorid
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m <sup>3</sup> )	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/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	5 ppm
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	10 ppm

Switzerland	Local name	Acide chlorhydrique / Chlorwasserstoff [Salzsäure]
Switzerland	MAK (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	4 ppm
Switzerland	Notation	SSC

  

Hydrochloric acid ... % (EC 231-595-7)		
<b>DNEL/DMEL (Workers)</b>		
Acute - local effects, inhalation	15 mg/m <sup>3</sup>	
Long-term - local effects, inhalation	8 mg/m <sup>3</sup>	
<b>DNEL/DMEL (General population)</b>		
Acute - local effects, inhalation	15 mg/m <sup>3</sup>	
Long-term - local effects, inhalation	8 mg/m <sup>3</sup>	

## 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	: Colorless
Odor	: Odorless
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
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 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 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

Hydrochloric acid ... % (EC 231-595-7)	
LC50 inhalation rat	7051 mg/m <sup>3</sup> 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 (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified 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 Information on other hazards**

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 Bioaccumulative potential**

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)	: Not applicable
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)**

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

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

Not applicable

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

**15.1.2 National regulations**

Comply with applicable local regulations.

**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.

## Safety Data sheet

According to regulation (EU) 2020/878

Date of issue: 15.10.2024

Revision date: -

Version/Replaced version: 1.0/-

Change 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)
IAEA	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.

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## 1 Identification of substance/mixture and company

### 1.1 Product identifier

Product form	:	Mixture
Product name	:	Control 1
	:	Control 2
Catalog #	:	REF
	:	REF

### 1.2 Relevant identified uses of substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

Use of the substance/mixture	:	Laboratory reagent, Immunoassays
	:	Use by professionals

#### 1.2.2 Uses advised against

No additional information available

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

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](mailto:products.support@diasource.be)

### 1.4 Emergency telephone number

DIAsource (only office hours) : +32 (0)10/84.99.23

Centre Anti-Poisons (BE) : 070 245 245

Please refer to your local Anti-Poison Center!

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 (CLP)

Corrosive to metal, category 1 H290 May be corrosive to metal.

(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage.

### 2.2 Label element

Labelling according to Regulation (EC) N° 1272/2008 (CLP)

Hazard symbol (CLP) :



Signal word (CLP) : Warning

Hazard statement (CLP) : H290 May be corrosive to metal

Precaution statement (CLP) : 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

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

Hazard symbol (CLP) : -

Signal word (CLP) : -

Hazard statement (CLP) : -

Precaution statement (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) 2018/605.

### 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]
hydrochloric acid ... %	(EC-No) 231-595-7 (EC Index-No) 017-002-01-X	< 1	Met. Corr. 1, H290 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 (EC Index-No) 017-002-01-X	(10 ≤ C < 25) Skin Irrit. 2, H315 (10 ≤ C < 25) Eye Irrit. 2, H319 (10 ≤ C ≤ 100) STOT SE 3, H335 (25 ≤ C ≤ 100) Skin Corr. 1B, H314

Full text of H-statements: see section16

### 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.

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 symptom 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 Firefighting 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 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

: Ensure adequate air ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray.

6.1.1 For non-emergency personnel

: Evacuate unnecessary personnel.

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2 For emergency responders

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

Prohibitions on mixed storage

: Keep away from food, drink and animal feeding stuffs.

Incompatible materials

: Metals.

### 7.3 Specific end use(s)

Laboratory reagent, Immunoassays

## 8 Exposure controls/personnel protection

### 8.1 Control parameters

Hydrochloric acid ... % (EC 231-595-7)		
EU	Local name	Hydrogen chloride
EU	IOELV TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	10 ppm
Austria	Local name	Chlorwasserstoff
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) (ppm)	5 ppm
Austria	MAK (OEL STEL) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) (ppm)	10 ppm
Belgium	Local name	Hydrogène (chlorure d') # Waterstofchloride
Belgium	OEL TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Belgium	OEL TWA (ppm)	5 ppm
Belgium	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Belgium	OEL STEL (ppm)	10 ppm
Germany	TRGS 900 Local name	Hydrogenchlorid
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	2 ppm
Germany	TRGS 900 Remark	2(l), DFG, EU, Y
Luxembourg	Local name	Chlorure d'hydrogène
Luxembourg	OEL TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	5 ppm
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	10 ppm
Switzerland	Local name	Acide chlorhydrique / Chlorwasserstoff [Salzsäure]
Switzerland	MAK (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	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/m<sup>3</sup>

Long-term - local effects, inhalation	8 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - local effects, inhalation	15 mg/m <sup>3</sup>
Long-term - local effects, inhalation	8 mg/m <sup>3</sup>

## 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	: Colorless
Odor	: Odorless
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
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 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 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

Hydrochloric acid ... % (EC 231-595-7)	
LC50 inhalation rat	7051 mg/m <sup>3</sup> 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 (single exposure) : Not classified  
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified  
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 Information on other hazards

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 Bioaccumulative potential

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) : Not applicable  
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)**

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

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

Not applicable

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

**15.1.2 National regulations**

Comply with applicable local regulations.

**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.

Change 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)
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.

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## 1 Identification of substance/mixture and company

### 1.1 Product identifier

Product form : Substance  
Product name : Acylation Concentrate **ACYL-CONC**  
Catalog # : BA R-8312 **REF**

### 1.2 Relevant identified uses of substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

Use of the substance/mixture : Laboratory reagent, Immunoassays  
Use by professionals

#### 1.2.2 Uses advised against

No additional information available

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

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](mailto:products.support@diasource.be)

### 1.4 Emergency telephone number

DIAsource (only office hours) : +32 (0)10/84.99.23  
Centre Anti-Poisons (BE) : 070 245 245

Please refer to your local Anti-Poison Center!

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 (CLP)

Skin corrosion/irritation, Category 1 H314 Causes severe skin burns and eye damage.  
Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.  
Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.  
Respiratory sensitisation, Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2 Label element

Labelling according to Regulation (EC) N° 1272/2008 (CLP)

Hazard symbol (CLP) :



Signal word (CLP)

: Warning

Hazard statement (CLP)

: H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precaution statement (CLP)

: P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P501 Dispose of contents/container to an authorised waste collection point.

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

Hazard symbol (CLP) :



Signal word (CLP) :

Warning

Hazard statement (CLP) :

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precaution statement (CLP) :

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 Dispose of contents/container to an authorised waste collection point.

## 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	> 60	Not classified
Succinic anhydride	(CAS no) 108-30-5 (EC no) 203-570-0 (EC index no) 607-103-00-5	15 - < 25	Acute Tox. 4 (oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Resp. Sens. 1, H334

Full text of H-statements: see section16

## 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.

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 symptom and effects, both acute and delayed

Symptoms/effects :

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Corrosive to the respiratory tract.

Symptoms/effects after skin contact :

Causes severe skin burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact :

Causes serious eye damage.

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

Treat symptomatically.

## 5 Firefighting 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. 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 : 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 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 original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from heat and direct sunlight. Protect from frost. Store locked up.

Prohibitions on mixed storage

: Keep away from food, drink and animal feeding stuffs.

**7.3 Specific end use(s)**

Laboratory reagent, Immunoassays

**8 Exposure controls/personnel protection****8.1 Control parameters**

Dimethyl sulfoxide (67-68-5)		
Austria	Local name	Dimethylsulfoxid
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	160 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) (ppm)	50 ppm
Austria	Remark (AT)	H
Germany	TRGS 900 Local name	Dimethylsulfoxid (DMSO)
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m <sup>3</sup> )	160 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	50 ppm
Germany	TRGS 900 Remark	2(l), DFG, Z, H
Switzerland	Local name	Diméthylsulfoxyde (DMSO) / Dimethylsulfoxid (DMSO)
Switzerland	MAK (mg/m <sup>3</sup> )	160 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	320 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	100 ppm
Switzerland	Notation (CH)	H

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

Succinic anhydride (108-30-5)	
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.085 mg/l
PNEC aqua (marine water)	0.009 mg/l
PNEC aqua (freshwater, intermittent)	0.85 mg/l
PNEC aqua (marine water, intermittent)	0.085 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	1.959 mg/kg dry weight
PNEC sediment (marine water)	0.196 mg/kg dry weight
<b>PNEC (Soil)</b>	
PNEC soil	0.342 mg/kg dry weight
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	2.5 mg/l

## 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

Odor : No data available

Melting point/freezing point : No data available

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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	: No data available
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 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

None under normal use.

### 10.4 Conditions to avoid

High temperatures.

### 10.5 Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

### 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.

## 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	

Dimethyl sulfoxide (67-68-5)	
LD50 oral rat	28300 mg/kg
LD50 dermal rat	~ 40000 mg/kg
LC50 inhalation rat	> 5.33 mg/l air, 4 h

Succinic anhydride (108-30-5)	
LD50 oral rat	1794.9 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation	: Causes severe skin burns and eye damage
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitization	: May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled
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

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Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Based on available data, the classification criteria are not met

## 11.2 Information on other hazards

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

#### 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

#### Succinic anhydride (108-30-5)

LC50 fish	> 100 mg/l 96 h, Danio rerio
EC50 daphnia	> 102 mg/l 48 h, Daphnia magna
ErC50 algae	> 100 mg/l 72 h, Raphidocelis subcapitata
NOEC algae	100 mg/l 72 h, Raphidocelis subcapitata

### 12.2 Persistence and degradability

#### Dimethyl sulfoxide (67-68-5)

Persistence and degradability	Not readily biodegradable.
Biodegradation	31 %, 28 d

#### Succinic anhydride (108-30-5)

Persistence and degradability	Readily biodegradable.
Biodegradation	96.6 %, 28 d

### 12.3 Bioaccumulative potential

#### Dimethyl sulfoxide (67-68-5)

Partition coefficient n-octanol/water (Log Pow)	-1.35 (20 °C)
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#### Succinic anhydride (108-30-5)

Partition coefficient n-octanol/water (Log Pow)	2.44 (40 °C)
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### 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)	: Not applicable
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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)

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

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

Not applicable

## 15 Regulatory information

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

#### 15.1.1 EU-Regulations

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

#### 15.1.2 National regulations

Comply with applicable local regulations.

### 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.

Change 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)
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

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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. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam.1	Serious eye damage/eye irritation, Category 1
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**1 Identification of substance/mixture and company****1.1 Product identifier**

Product form : Mixture  
Product name : Assay Buffer **ASSAY-BUFF**  
Catalog # : BA R-8313 **REF**

**1.2 Relevant identified uses of substance or mixture and uses advised against****1.2.1 Relevant identified uses**

Use of the substance/mixture : Laboratory reagent, Immunoassays  
Use by professionals

**1.2.2 Uses advised against**

No additional information available

**1.3 Details of the supplier of the safety data sheet****Supplier/Manufacturer**

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](mailto:products.support@diasource.be)

**1.4 Emergency telephone number**

DIAsource (only office hours) : +32 (0)10/84.99.23  
Centre Anti-Poisons (BE) : 070 245 245

Please refer to your local Anti-Poison Center!

**2 Hazards identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) N° 1272/2008 (CLP)

Flammable liquids, Category 3 H226 Flammable liquid and vapour.  
(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour.

**2.2 Label element**

Labelling according to Regulation (EC) N° 1272/2008 (CLP)

Hazard symbol (CLP) :



Signal word (CLP)

: Warning

Hazard statement (CLP)

: H226 Flammable liquid and vapour.

Precaution statement (CLP)

: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear eye protection.

P370+P378 In case of fire: Use carbon dioxide, dry extinguishing powder, water spray, alcohol resistant foam to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to an authorised waste collection point.

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

Hazard symbol (CLP) :



Signal word (CLP)

: Warning

Hazard statement (CLP)

: -

Precaution statement (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) 2018/605.

## 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]
Ethanol, ethyl alcohol*1	(CAS no) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH no) 01-2119457610-43-xxxx	< 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Name		Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]	
Ethanol, ethyl alcohol	(CAS no) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH no) 01-2119457610-43-xxxx	(C ≥ 50)	Eye Irrit. 2, H319

Full text of H-statements: see section16

## 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.

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 symptom 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 Firefighting 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

: Toxic gases may be formed. Carbon dioxide. Carbon monoxide. Hydrogen chloride. Chlorine.

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.

### 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.

#### 6.1.1 For non-emergency personnel

: Evacuate unnecessary personnel.

#### 6.1.2 For emergency responders

: Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.

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## 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.

## 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. Store locked up.

Prohibitions on mixed storage

: Keep away from food, drink and animal feeding stuffs.

Incompatible materials

: Metals.

### 7.3 Specific end use(s)

Laboratory reagent, Immunoassays

## 8 Exposure controls/personnel protection

### 8.1 Control parameters

Ethanol (64-17-5)		
Austria	Local name	Ethanol
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) (ppm)	1000 ppm
Austria	MAK (OEL STEL) (mg/m <sup>3</sup> )	3800 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) (ppm)	2000 ppm
Belgium	Local name	Ethanol
Belgium	OEL TWA (mg/m <sup>3</sup> )	1907 mg/m <sup>3</sup>
Belgium	OEL TWA (ppm)	1000 ppm
Germany	TRGS 900 Local name	Ethanol
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	380 ppm
Germany	TRGS 900 Remark	4(II), DFG, Y
Switzerland	Local name	Ethanol
Switzerland	MAK (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	500 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	1000 ppm
Switzerland	Notation (CH)	SSc

### Dimethyl sulfoxide (67-68-5)

#### DNEL/DMEL (Workers)

Ethanol (64-17-5)

Long-term - systemic effects, inhalation 380 mg/m<sup>3</sup>

#### DNEL/DMEL (General population)

Long-term - systemic effects, inhalation 114 mg/m<sup>3</sup>

#### PNEC (Water)

PNEC aqua (freshwater) 0.96 mg/l

PNEC aqua (marine water) 0.79 mg/l

PNEC aqua (intermittent, freshwater) 2.75 mg/l

#### PNEC (Sediment)

PNEC sediment (freshwater) 3.6 mg/kg dwt

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PNEC sediment (marine water)	2.9 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.63 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	0.38 g/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	580 mg/l

## 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	: Colorless
Odor	: No data available
Melting point/freezing point	: No data available
Boiling point or initial boiling point and boiling range	: No data available
Flammability	: Flammable liquid and vapour
Lower and upper explosion limit	: No data available
Flash point	: $\geq 23 - \leq 60$ °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
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 : May form flammable/explosive vapour-air mixture

Oxidising properties : No oxidising properties

### 9.2.2 Other safety characteristics

No additional information available

## 10 Stability and reactivity

### 10.1 Reactivity

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**

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

<b>Ethanol (64-17-5)</b>	
LD50 oral rat	10470 mg/kg
LC50 inhalation rat (Vapours)	124.7 mg/l/4 h

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 (single exposure)

: Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure)

: Not classified

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 Information on other hazards

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

<b>Ethanol (64-17-5)</b>	
LC50 fish	14200 mg/l 96 h, Pimephales promelas
EC50 daphnia	5012 mg/l 48h, Ceriodaphnia dubia
ErC50 algae	275 mg/l 72 h, Chlorella vulgaris
NOEC fish	250 mg/l 120 h, Danio rerio
NOEC daphnia	9.6 mg/l 10 d, Ceriodaphnia dubia

**12.2 Persistence and degradability**

<b>Ethanol (64-17-5)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	84 %, 20 d

**12.3 Bioaccumulative potential**

<b>Ethanol (64-17-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.35 (25 °C)

**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) : Not applicable

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)

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

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

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

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

Not applicable

## 15 Regulatory information

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

#### 15.1.1 EU-Regulations

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

#### 15.1.2 National regulations

Comply with applicable local regulations.

### 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.

Change 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)
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:

Flam. Liq. 2	Flammable liquids, Category 2.
Flam. Liq. 3	Flammable liquids, Category 3.
Eye Irrit. 2	Serious eye damage/eye irritation.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## 1 Identification of substance/mixture and company

### 1.1 Product identifier

Product form : Mixture  
Product name : Elution Buffer **ELUTION-BUFF**  
Catalog # : BA R-8326 **REF**

### 1.2 Relevant identified uses of substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

Use of the substance/mixture : Laboratory reagent, Immunoassays  
Use by professionals

#### 1.2.2 Uses advised against

No additional information available

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

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](mailto:products.support@diasource.be)

### 1.4 Emergency telephone number

DIAsource (only office hours) : +32 (0)10/84.99.23  
Centre Anti-Poisons (BE) : 070 245 245

Please refer to your local Anti-Poison Center!

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 (CLP)

Corrosive to metal, category 1 H290 May be corrosive to metal.  
Skin corrosion/irritation, Category 1 H314 Causes severe skin burns and eye damage.  
Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.

(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage.

### 2.2 Label element

Labelling according to Regulation (EC) N° 1272/2008 (CLP)

Hazard symbol (CLP) :



Signal word (CLP) : Danger  
Hazard statement (CLP) : H290 May be corrosive to metal.  
H314 Causes severe skin burns and eye damage.  
Precaution statement (CLP) : P280 Wear protective gloves, protective clothing, eye protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a doctor, a POISON CENTER.  
P501 Dispose of contents/container to an authorised waste collection point..

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

Hazard symbol (CLP) :



Signal word (CLP) : Danger

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Hazard statement (CLP)

: H314 Causes severe skin burns and eye damage.

Precaution statement (CLP)

: P280 Wear protective gloves, protective clothing, eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor, a POISON CENTER.

P501 Dispose of contents/container to an authorised waste collection point..

### 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]
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	< 0,5	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

  

Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	(0.5 ≤ C < 2) Skin Irrit. 2, H315 (0.5 ≤ C < 2) Eye Irrit. 2, H319 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C ≤ 100) Skin Corr. 1A, H314

Full text of H-statements: see section16

## 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.

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. Call a physician immediately.

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

Symptoms/effects after skin contact

: Causes severe skin burns.

Symptoms/effects after eye contact

: Causes serious eye damage.

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

Treat symptomatically.

## 5 Firefighting 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 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. 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 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. Store locked up.

Prohibitions on mixed storage

: Keep away from food, drink and animal feeding stuffs.

Incompatible materials

: Metals.

### 7.3 Specific end use(s)

Laboratory reagent, Immunoassays

## 8 Exposure controls/personnel protection

### 8.1 Control parameters

sodium hydroxide; caustic soda (1310-73-2)		
Austria	Local name	Natriumhydroxid
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (E)
Austria	MAK (OEL STEL) (ppm)	4 mg/m <sup>3</sup> (E)
Belgium	Local name	Sodium (hydroxyde de) # Natriumhydroxide
Belgium	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Belgium	Remark	M
Switzerland	Local name	Soude caustique / Natriumhydroxid
Switzerland	MAK (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (i) / (e)
Switzerland	KZGW (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (i) / (e)
Switzerland	Notation (CH)	SSC

sodium hydroxide; caustic soda (1310-73-2)	
<b>DNEL/DMEL (Workers)</b>	
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>

### 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.

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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	: No data available
Odor	: Odorless
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
pH	: [12.5 – 13.3]
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 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 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.

## 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
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: ≥ 11.5
Serious eye damage/irritation	: Serious eye damage, category 1, implicit. pH: ≥ 11.5

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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 (single exposure)	:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	:	Not classified 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 Information on other hazards

Potential adverse human health effects and symptoms	:	Based on available data, the classification criteria are not met
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## 12 Ecological information

### 12.1 Toxicity

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

**sodium hydroxide; caustic soda (1310-73-2)**

EC50 crustacea	40.4 mg/l 48 h, Ceriodaphnia sp.
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### 12.2 Persistence and degradability

No additional information available.

### 12.3 Bioaccumulative potential

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)	:	Not applicable
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)

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

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

Not applicable

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

**15.1.2 National regulations**

Comply with applicable local regulations.

**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.

Change 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)
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. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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.

**SDS EU (REACH Annex II)**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.