

The Safety Date Sheet is usable for:**KAPL10-1900****5-HIAA ELISA**

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-0041 | Diluent | -  DILUENT | 1.0 |
| BA E-0080 | Stop Solution | -  STOP-SOLN | 1.0 |
| BA E-1901 | Standard A | -  STANDARD A | 1.0 |
| BA E-1902 | Standard B | -  STANDARD B | 1.0 |
| BA E-1903 | Standard C | -  STANDARD C | 1.0 |
| BA E-1904 | Standard D | -  STANDARD D | 1.0 |
| BA E-1905 | Standard E | -  STANDARD E | 1.0 |
| BA E-1906 | Standard F | -  STANDARD F | 1.0 |
| BA E-1937 | Methylation Buffer |      METHYL-BUFF | 1.0 |
| BA E-1939 | Methylation Reagent |      METHYL-REAG | 2.0 |
| BA E-1951 | Control 1 | -  CONTROL 1 | 1.0 |
| BA E-1952 | Control 2 | -  CONTROL 2 | 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

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 ³ |
| Acute - local effects, inhalation | 0.046 mg/m ³ |

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 ³ |
| Acute - local effects, inhalation | 0.043 mg/m ³ |

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 |
|-----------|-----------------|

PNEC (STP)

| | |
|-----------------------------|-----------|
| PNEC sewage treatment plant | 0.23 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 | : 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 |
|----------------|--|

| 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 |
|----------------|--|

| | |
|---------------------------|--|
| 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 | : 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 |
|---|---|--|

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 : Diluent **DILUENT**
Catalog # : BA E-0041 **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

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

: 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.

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. 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

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

| | | |
|-------------|---|--|
| EU | Local name | Hydrogen chloride |
| EU | IOELV TWA (mg/m ³) | 8 mg/m ³ |
| EU | IOELV TWA (ppm) | 5 ppm |
| EU | IOELV STEL (mg/m ³) | 15 mg/m ³ |
| EU | IOELV STEL (ppm) | 10 ppm |
| Austria | Local name | Chlorwasserstoff |
| Austria | MAK (OEL TWA) (mg/m ³) | 8 mg/m ³ |
| Austria | MAK (OEL TWA) (ppm) | 5 ppm |
| Austria | MAK (OEL STEL) (mg/m ³) | 15 mg/m ³ |
| Austria | MAK (OEL STEL) (ppm) | 10 ppm |
| Belgium | Local name | Hydrogène (chlorure d') # Waterstofchloride |
| Belgium | OEL TWA (mg/m ³) | 8 mg/m ³ |
| Belgium | OEL TWA (ppm) | 5 ppm |
| Belgium | OEL STEL (mg/m ³) | 15 mg/m ³ |
| Belgium | OEL STEL (ppm) | 10 ppm |
| Germany | TRGS 900 Local name | Hydrogenchlorid |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m ³) | 3 mg/m ³ |
| 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 ³) | 8 mg/m ³ |
| Luxembourg | OEL TWA (ppm) | 5 ppm |
| Luxembourg | OEL STEL (mg/m ³) | 15 mg/m ³ |
| Luxembourg | OEL STEL (ppm) | 10 ppm |
| Switzerland | Local name | Acide chlorhydrique / Chlorwasserstoff [Salzsäure] |
| Switzerland | MAK (mg/m ³) | 3 mg/m ³ |
| Switzerland | MAK (ppm) | 2 ppm |
| Switzerland | KZGW (mg/m ³) | 6 mg/m ³ |
| Switzerland | KZGW (ppm) | 4 ppm |
| Switzerland | Notation | SSC |

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

DNEL/DMEL (Workers)

| | |
|---------------------------------------|----------------------|
| Acute - local effects, inhalation | 15 mg/m ³ |
| Long-term - local effects, inhalation | 8 mg/m ³ |

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

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.

Date of issue: 16.06.2025

Revision date: -

Version/Replaced version: 1.0/-

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 ³ 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 : 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

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 ³ |
| Austria | Local name | Schwefelsäure |
| Austria | MAK (OEL TWA) (mg/m ³) | 0.1 E mg/m ³ |
| Austria | MAK (OEL STEL) (mg/m ³) | 0.2 E mg/m ³ |
| Belgium | Local name | Acide sulfurique (brume) # Zwavelzuur (nevel) |
| Belgium | OEL TWA (mg/m ³) | 0.2 mg/m ³ |
| Belgium | Remark | C |
| Germany | TRGS 900 Local name | Schwefelsäure |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m ³) | 0.1 E mg/m ³ |
| Germany | TRGS 900 Remark | 1(I), DFG, EU, Y |
| Luxembourg | Local name | Acide sulfurique (brume) |
| Luxembourg | OEL STEL (mg/m ³) | 0.05 mg/m ³ |
| Switzerland | Local name | Schwefelsäure |
| Switzerland | MAK (mg/m ³) | 0.1 e mg/m ³ |
| Switzerland | KZGW (mg/m ³) | 0.2 e mg/m ³ |
| 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 |
|---------------------------|--|

| | |
|-------------------------------|--|
| 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

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

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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 STANDARD A |
| | | Standard B STANDARD B |
| | | Standard C STANDARD C |
| | | Standard D STANDARD D |
| | | Standard E STANDARD E |
| | | Standard F STANDARD F |
| Catalog # | : | BA E-1901 REF |
| | | BA E-1902 REF |
| | | BA E-1903 REF |
| | | BA E-1904 REF |
| | | BA E-1905 REF |
| | | BA E-1906 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**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

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 ³) | 8 mg/m ³ |
| EU | IOELV TWA (ppm) | 5 ppm |
| EU | IOELV STEL (mg/m ³) | 15 mg/m ³ |
| EU | IOELV STEL (ppm) | 10 ppm |
| Austria | Local name | Chlorwasserstoff |
| Austria | MAK (OEL TWA) (mg/m ³) | 8 mg/m ³ |
| Austria | MAK (OEL TWA) (ppm) | 5 ppm |
| Austria | MAK (OEL STEL) (mg/m ³) | 15 mg/m ³ |
| Austria | MAK (OEL STEL) (ppm) | 10 ppm |
| Belgium | Local name | Hydrogène (chlorure d') # Waterstofchloride |
| Belgium | OEL TWA (mg/m ³) | 8 mg/m ³ |
| Belgium | OEL TWA (ppm) | 5 ppm |
| Belgium | OEL STEL (mg/m ³) | 15 mg/m ³ |
| Belgium | OEL STEL (ppm) | 10 ppm |
| Germany | TRGS 900 Local name | Hydrogenchlorid |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m ³) | 3 mg/m ³ |
| 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 ³) | 8 mg/m ³ |
| Luxembourg | OEL TWA (ppm) | 5 ppm |
| Luxembourg | OEL STEL (mg/m ³) | 15 mg/m ³ |
| Luxembourg | OEL STEL (ppm) | 10 ppm |

Safety Data sheet

According to regulation (EU) 2020/878

Date of issue: 11.06.2025

Revision date: -

Version/Replaced version: 1.0/-

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

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

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 ³ 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: 11.06.2025

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) |
| ATA | 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 : Methylation Buffer **METHYL-BUFF**
Catalog # : BA E-1937 **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

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 2 | H225 Highly flammable liquid and vapour. |
| Acute toxicity (oral), Category 3 | H301 Toxic if swallowed. |
| Acute toxicity (dermal), Category 3 | H311 Toxic if swallowed in contact with skin. |
| Acute toxicity (inhalation), Category 3 | H331 Toxic if swallowed if inhaled. |
| Specific target organ toxicity — Single exposure, Category 1 | H370 Causes damage to organs (eye, central nervous system). |
| (Full test of H-statements: see section16) | |

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs (eye, central nervous system).

2.2 Label element

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

Hazard symbol (CLP) :



Signal word (CLP)

: Danger

Hazard statement (CLP)

: H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic if swallowed in contact with skin.

H331 Toxic if swallowed if inhaled.

H370 Causes damage to organs (eye, central nervous system).

H319 Causes serious eye irritation.

Precaution statement (CLP)

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

P260 – Do not breathe fume/gas/mist/vapours/spray.

P280 Wear eye protection.

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

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

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

Date of issue: 16.06.2025

Revision date: -

Version/Replaced version: 1.0/-

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

Hazard symbol (CLP)



Signal word (CLP)

: Danger

Hazard statement (CLP)

: H301 Toxic if swallowed.

H311 Toxic if swallowed in contact with skin.

H331 Toxic if swallowed if inhaled.

H370 Causes damage to organs (eye, central nervous system).

H319 Causes serious eye irritation.

Precaution statement (CLP)

: P260 – Do not breathe fume/gas/mist/vapours/spray.

P280 Wear eye protection.

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

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

P501 - Dispose of contents/container to 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 (EC index no) | 40 - 60 | Not classified |
| Methanol | (CAS no) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-x | 20 - 50 | Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370 |

| Name | Product identifier | Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP] |
|----------|---|--|
| Methanol | (CAS no) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-x | (3 ≤ C < 10) STOT SE 2, H371 (10 ≤ C ≤ 100) STOT SE 1, H370 |

Full text of H-statements: see section 16

4 First aid measures

4.1 Description of first aid measures

First-aid measures general

: IF exposed or concerned: Call a POISON CENTER or doctor. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.

First-aid measures after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Make the affected person rest and keep at warm. If breathing stops, give artificial respiration.

First-aid measures after skin contact

: Take off immediately all contaminated clothing. IF ON SKIN: Wash with plenty of soap and water. Get medical advice/attention if you feel unwell.

First-aid measures after eye contact

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

First-aid measures after ingestion

: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Drink water as a precaution.

4.2 Most important symptom and effects, both acute and delayed

Symptoms/effects general

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

Symptoms/effects after inhalation

: Toxic if inhaled. Possible symptoms: cough, dizziness, headache.

Symptoms/effects after skin contact

: Toxic in contact with skin.

Symptoms/effects after ingestion

: Toxic if swallowed. Possible symptoms: Abdominal pain, malaise, vomiting. Poisoning effects on central nervous system may cause cramps, difficulty in breathing and unconsciousness. Risk of blindness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 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 : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

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

5.3 Advice for firefighters

Firefighting instructions : Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.

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

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Provide adequate ventilation. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid contact with skin and eyes. Do not breathe vapours/spray.

6.1.1 For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2 For emergency responders

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

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 regulation.

6.4 Reference to other sections

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

7 Handling and storage

7.1 Precautions for safe handling

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

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Remove all sources of ignition. No open flames. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

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. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions

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

Prohibitions on mixed storage

: Keep away from food, drink and animal feedingstuffs. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

Incompatible materials

: -

7.3 Specific end use(s)

Laboratory reagent, Immunoassays

8 Exposure controls/personnel protection

8.1 Control parameters

Dimethyl sulfoxide (CAS N° 67-68-5)

| | | |
|-------------|---|--|
| Austria | Local name | Dimethylsulfoxid |
| Austria | MAK (OEL TWA) (mg/m ³) | 160 mg/m ³ |
| Austria | MAK (OEL TWA) (ppm) | 50 ppm |
| Austria | Remark (AT) | H |
| Austria | MAK (OEL STEL) (ppm) | 2000 ppm |
| Germany | TRGS 900 Local name | Dimethylsulfoxid (DMSO) |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m ³) | 160 mg/m ³ |
| Germany | TRGS 900 Occupational Exposure Limit Value (ppm) | 50 ppm |
| Germany | TRGS 900 Remark | 2(I), DFG, Z, H |
| Switzerland | Local name | Dimethylsulfoxide (DMSO) / Dimethylsulfoxid (DMSO) |
| Switzerland | MAK (mg/m ³) | 160 mg/m ³ |
| Switzerland | MAK (ppm) | 50 ppm |
| Switzerland | KZGW (mg/m ³) | 320 mg/m ³ |
| Switzerland | KZGW (ppm) | 100 ppm |
| Switzerland | Notation (CH) | H |

Methanol (CAS N° 67-56-1)

| | | |
|-------------|---|-------------------------------------|
| EU | Local name | Methanol |
| EU | IOELV TWA (mg/m ³) | 260 mg/m ³ |
| EU | IOELV TWA (ppm) | 200 ppm |
| EU | Annotation | Skin |
| Austria | Local name | Methanol |
| Austria | MAK (OEL TWA) (mg/m ³) | 295 mg/m ³ |
| Austria | MAK (OEL TWA) (ppm) | 100 ppm |
| Austria | MAK (OEL STELL) (mg/m ³) | 590 ng/m ³ |
| Austria | MAK (OEL STELL) (ppm) | 200 ppm |
| Austria | Remark (AT) | H |
| Belgium | Local name | Alcool methylique # Methanol |
| Belgium | OEL TWA (mg/m ³) | 266 mg/m ³ |
| Belgium | OEL TWA (ppm) | 200 ppm |
| Belgium | OEL STEL (mg/m ³) | 333 ng/m ³ |
| Belgium | OEL STEL (ppm) | 250 ppm |
| Belgium | Remark (BE) | D |
| Germany | TRGS 900 Local name | Methanol |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m ³) | 130 mg/m ³ |
| Germany | TRGS 900 Occupational Exposure Limit Value (ppm) | 100 ppm |
| Germany | TRGS 900 Remark | 2(II), DFG, EU, H, Y |
| Germany | TRGS 903 (BGW) | 15 mg/l U, b, c parameter: Methanol |
| Luxembourg | Local name | Méthanol |
| Luxembourg | OEL TWA (mg/m ³) | 260 mg/m ³ |
| Luxembourg | OEL TWA (ppm) | 200 ppm |
| Luxembourg | Mention | Peau |
| Switzerland | Local name | Methanol / Methanol [Methylalkohol] |
| Switzerland | MAK (mg/m ³) | 260 mg/m ³ |
| Switzerland | MAK (ppm) | 200 ppm |
| Switzerland | KZGW (mg/m ³) | 520 mg/m ³ |
| Switzerland | KZGW (ppm) | 400 ppm |
| Switzerland | Notation (CH) | H, B, SSc |
| Switzerland | BAT Value | 30 mg/l, U, b parameter: Methanol |

Dimethyl sulfoxide (CAS N° 67-68-5)

DNEL/DMEL (Workers)

| | |
|--|--------------------------|
| Long-term - systemic effects, dermal | 365 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 75 mg/m ³ |
| Long-term - local effects, inhalation | 17.67 mg/m ³ |

DNEL/DMEL (General population)

| | |
|------------------------------------|---------------------------|
| Long-term - systemic effects, oral | 1.67 mg/kg bodyweight/day |
|------------------------------------|---------------------------|

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| | |
|--|--------------------------|
| Long-term - systemic effects, inhalation | 56 mg/m ³ |
| Long-term - systemic effects, dermal | 178 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 3.13 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 17 mg/l |
| PNEC aqua (marine water) | 1.7 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 61.4 mg/kg dry weight |
| PNEC sediment (marine water) | 6.14 mg/kg dry weight |
| PNEC (Soil) | |
| PNEC soil | 2.32 mg/kg dry weight |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 0.7 g/kg food |
| PNEC (Water) | |
| PNEC sewage treatment plant | 11 mg/l |

| | |
|--|-------------------------|
| Methanol (CAS N° 67-56-1) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 20 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation | 130 mg/m ³ |
| Acute - local effects, inhalation | 130 mg/m ³ |
| Long-term - systemic effects, dermal | 20 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 130 mg/m ³ |
| Long-term - local effects, inhalation | 130 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, dermal | 4 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation | 26 mg/m ³ |
| Acute - systemic effects, oral | 4 mg/kg bodyweight/day |
| Acute - local effects, inhalation | 26 mg/m ³ |
| Long-term - systemic effects, oral | 4 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 26 mg/m ³ |
| Long-term - systemic effects, dermal | 4 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 26 mg/m ³ |

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. Flame retardant antistatic protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type ABEK2P3

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 | : Highly flammable liquid and vapour |
| 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 |

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| | |
|---------------------------------|---------------------|
| Vapour pressure | : No data available |
| Density and/or relative density | : 0.79 g/cm³ @ 20°C |
| 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

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

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

10.6 Hazardous decomposition products

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

11 Toxicological information

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

| | |
|----------------|--|
| Acute toxicity | : Not classified Based on available data, the classification criteria are not met |
|----------------|--|

Dimethyl sulfoxide (CAS N° 67-68-5)

| | |
|-------------------------------|----------------------|
| LD50 oral rat | 28300 mg/kg |
| LD50 dermal rat | ~ 40000 mg/kg |
| LC50 inhalation rat (Vapours) | > 5.33 mg/l air, 4 h |

Methanol (CAS N° 67-56-1)

| | |
|-------------------------------|---|
| LD50 oral rat | 1187 - 2769 mg/kg (15 - 35 % in solution) |
| LC50 inhalation rat (Vapours) | 128.2 mg/l air, 4 h |

Skin corrosion/irritation

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

Serious eye damage/irritation

: Causes serious eye irritation

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

Dimethyl sulfoxide (CAS N° 67-68-5)

| | |
|--------------|---|
| LC50 fish | 25000 mg/l 96 h, Danio rerio |
| EC50 daphnia | 24600 mg/l 48 h, Daphnia magna |
| ErC50 algae | 17000 mg/l 72 h, Raphidocelis subcapitata |

Methanol (CAS N° 67-56-1)

| | |
|--------------|---|
| LC50 fish | 15400 mg/l 96 h, Lepomis macrochirus |
| EC50 daphnia | 18260 mg/l 96 h, Daphnia magna |
| ErC50 algae | ~ 22000 mg/l 96 h, Raphidocelis subcapitata |

12.2 Persistence and degradability

Dimethyl sulfoxide (CAS N° 67-68-5)

| | |
|-------------------------------|---------------------------|
| Persistence and degradability | Not easily biodegradable. |
| Biodegradation | 31 %, 28 d |

Methanol (CAS N° 67-56-1)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 97 %, 20 d |

12.3 Bioaccumulative potential

Dimethyl sulfoxide (CAS N° 67-68-5)

| | |
|---|---------------|
| Partition coefficient n-octanol/water (Log Pow) | -1.35 (20 °C) |
|---|---------------|

Methanol (CAS N° 67-56-1)

| | |
|---|---------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.77 (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

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 |

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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. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhalation), Category 3 |

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

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 : Methylation Reagent **METHYL-REAG**
Catalog # : BA E-1939 **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

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 1 | H224 Extremely flammable liquid and vapour. |
| Acute toxicity (oral), Category 4 | H302 Harmful if swallowed. |
| Acute toxicity (inhalation), Category 2 | H330 Fatal if inhaled. |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 May cause drowsiness or dizziness. |
| Carcinogenicity, Category 1B | H350 May cause cancer |
| Specific target organ toxicity — Single exposure, Category 1 | H370 Causes damage to organs (lungs, inhalation). |

(Full test of H-statements: see section16)

Adverse physicochemical, human health and environmental effects

Extremely flammable liquid and vapour. Harmful if swallowed. Fatal if inhaled. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging fertility. Causes damage to organs (lungs, inhalation).

2.2 Label element

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

Hazard symbol (CLP) :



Signal word (CLP)

: Danger

Hazard statement (CLP)

: H224 Extremely flammable liquid and vapour.

H302 Harmful if swallowed.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H370 Causes damage to organs (lungs, inhalation).

Precaution statement (CLP)

: P201 Obtain special instructions before use.

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

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor.

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

Hazard symbol (CLP) :



Signal word (CLP) :

Danger

Hazard statement (CLP) :

H224 Extremely flammable liquid and vapour.

H302 Harmful if swallowed.

H330 Fatal if inhaled.

H350 May cause cancer.

H370 Causes damage to organs (lungs, inhalation).

Precaution statement (CLP) :

P201 Obtain special instructions before use.

P260 Do not breathe mist/vapours/spray.

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

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

P310 Immediately call a POISON CENTER or doctor.

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] |
|------------------------------|---|----------|---|
| Diethyl ether; ether | (CAS no) 60-29-7 (EC no) 200-467-2 (EC index no) 603-022-00-4 | 70 - <90 | Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 STOT SE 3, H336 |
| (Trimethylsilyl)diazomethane | (CAS no) 18107-18-1 (EC no) 605-915-4 (EC index no) - | 20 - <30 | Acute Tox. 2 (Inhalation), H330 Carc. 1B, H350 STOT SE 1 (Lungs) (Inhalation), H370 |

Full text of H-statements: see section 16

4 First aid measures**4.1 Description of first aid measures**

First-aid measures general :

IF exposed or concerned: Call a POISON CENTER or doctor. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.

First-aid measures after inhalation :

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact :

Take off immediately all contaminated clothing. IF ON SKIN: Wash with plenty of soap and water.

First-aid measures after eye contact :

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

First-aid measures after ingestion :

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Drink water as a precaution. Immediately call a POISON CENTER/doctor.

4.2 Most important symptom and effects, both acute and delayed

Symptoms/effects general :

May cause cancer.

Symptoms/effects after inhalation :

Fatal if inhaled. May cause drowsiness or dizziness. Causes damage to organs (lungs, inhalation).

Symptoms/effects after skin contact :

Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after ingestion :

Harmful if swallowed.

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 : Extremely flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture. May form explosive peroxides.

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

5.3 Advice for firefighters

Firefighting instructions : Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.

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

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures : Provide adequate ventilation. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid contact with skin and eyes. Do not breathe vapours/spray.

6.1.1 For non-emergency personnel

: 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. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Clean preferably with a detergent - Avoid the use of solvents. Dispose of in accordance with relevant local regulation.

6.4 Reference to other sections

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

7 Handling and storage

7.1 Precautions for safe handling

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

Precautions for safe handling

: Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Remove all sources of ignition. No open flames. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions

: Store in original container. Keep container tightly closed. Store in a dry, cool, well-ventilated place. Keep in fireproof place. Protect from direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store locked up.

Storage temperature

: 2 – 8°C

Prohibitions on mixed storage

: Keep away from food, drink and animal feedingstuffs. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

Incompatible materials

: -

7.3 Specific end use(s)

Laboratory reagent, Immunoassays

8 Exposure controls/personnel protection

8.1 Control parameters

| Diethyl ether (CAS N° 60-29-7) | | |
|--------------------------------|---|-----------------------------------|
| EU | Local name | Diethyl ether |
| EU | IOELV LTEL (mg/m ³) | 308 mg/m ³ |
| EU | IOELV LTEL (ppm) | 100 ppm |
| EU | IOELV STEL (mg/m ³) | 616 mg/m ³ |
| EU | IOELV STEL (ppm) | 200 ppm |
| Austria | Local name | Diethyl ether |
| Austria | MAK (OEL TWA) (mg/m ³) | 300 mg/m ³ |
| Austria | MAK (OEL TWA) (ppm) | 100 ppm |
| Austria | MAK (OEL STEL) (mg/m ³) | 600 mg/m ³ |
| Austria | MAK (OEL STEL) (ppm) | 200 ppm |
| Belgium | Local name | Di-ethylether # Oxyde de diéthyle |
| Belgium | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Belgium | OEL TWA (ppm) | 100 ppm |
| Belgium | OEL STEL (mg/m ³) | 616 mg/m ³ |
| Belgium | OEL STEL (ppm) | 200 ppm |
| Germany | TRGS 900 Local name | Diethyl ether |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m ³) | 1200 mg/m ³ |
| Germany | TRGS 900 Occupational Exposure Limit Value (ppm) | 400 ppm |
| Germany | TRGS 900 Remark | 1(I), DFG, EU |
| Luxembourg | Local name | Oxyde de diéthyle |
| Luxembourg | OEL TWA (mg/m ³) | 308 mg/m ³ |
| Luxembourg | OEL TWA (ppm) | 100 ppm |
| Luxembourg | OEL STEL (mg/m ³) | 616 mg/m ³ |
| Luxembourg | OEL STEL (ppm) | 200 ppm |
| Switzerland | Local name | Diethylether # Ether éthylique |
| Switzerland | MAK (mg/m ³) | 1200 mg/m ³ |
| Switzerland | MAK (ppm) | 400 ppm |
| Switzerland | KZGW (mg/m ³) | 1200 mg/m ³ |
| Switzerland | KZGW (ppm) | 400 ppm |

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). Fluoroelastomer (FKM). ≥ 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 / EN ISO 16321).

Skin and body protection

: Wear suitable protective clothing. Flame retardant antistatic protective clothing.

Respiratory protection

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

Environmental exposure controls

: Avoid release to the environment.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--------------------------------------|
| Physical state | : Liquid |
| Colour | : Light yellow, clear |
| Odor | : No data available |
| Melting point/freezing point | : No data available |
| Boiling point or initial boiling point and boiling range | : No data available |
| Flammability | : Highly flammable liquid and vapour |
| Lower and upper explosion limit | : No data available |
| Flash point | : -35°C (close cup) |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| pH | : No data available |
| Kinematic viscosity | : No data available |

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| | |
|---|----------------------|
| Solubility | : No data available |
| Partition coefficient n-octanol/water (log value) | : Not applicable |
| Vapour pressure | : No data available |
| Density and/or relative density | : 0.773 g/cm³ @ 20°C |
| 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. May form explosive peroxides. |
| Oxidising properties | : No oxidising properties. |

9.2.2 Other safety characteristics

No additional information available

10 Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

10.6 Hazardous decomposition products

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

11 Toxicological information

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

Acute toxicity : Fatal if inhaled

Diethyl ether (CAS N° 60-29-7)

| | |
|-------------------------------|----------------|
| LD50 oral rat | 1200 mg/kg |
| LC50 inhalation rat (Vapours) | 97000 mg/m³/4h |

| | |
|--|--|
| 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 | : May cause cancer |
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : Causes damage to organs (lungs, inhalation). May cause drowsiness or dizziness |
| 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

11.2.1 Endocrine disrupting properties

Endocrine disruption for human health : The mixture has no endocrine disrupting properties.

11.2.2 Other information

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

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Version/Replaced version: 2.0/1.0

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

Diethyl ether (CAS N° 60-29-7)

| | |
|--------------|---|
| LC50 fish | 2840 mg/l 48 h, <i>Leuciscus idus melanotus</i> |
| EC50 daphnia | 1380 mg/l 48 h, <i>Daphnia magna</i> |
| ErC50 algae | >100 mg/l 72 h, <i>Desmodesmus subspicatus</i> |
| NOEC daphnia | 100 mg/l, 21 d, <i>Daphnia magn</i> |
| NOEC algae | 100 mg/l 72 h, <i>Desmodesmus subspicatus</i> |

12.2 Persistence and degradability

Diethyl ether (CAS N° 60-29-7)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

12.3 Bioaccumulative potential

Diethyl ether (CAS N° 60-29-7)

| | |
|---|------------------|
| Partition coefficient n-octanol/water (Log Pow) | ca. 1.05 (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

Endocrine disruption for the environment : The mixture has no endocrine disrupting properties.

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

Date of issue: 16.06.2025

Revision date: 09.01.2026

Version/Replaced version: 2.0/1.0

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 : Complete revision, change in composition

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 (inhalation), Category 2 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Carc. 1B | Carcinogenicity, Category 1B |
| Flam. Liq. 1 | Flammable liquids, Category 1 |
| STOT SE 1 | Specific target organ toxicity — Single exposure, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H224 | Extremely flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H330 | Fatal if inhaled |
| H336 | May cause drowsiness or dizziness |

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| | |
|------|-------------------------|
| H350 | May cause cancer |
| H370 | Causes damage to organs |

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

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

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 ³) | 8 mg/m ³ |
| EU | IOELV TWA (ppm) | 5 ppm |
| EU | IOELV STEL (mg/m ³) | 15 mg/m ³ |
| EU | IOELV STEL (ppm) | 10 ppm |
| Austria | Local name | Chlorwasserstoff |
| Austria | MAK (OEL TWA) (mg/m ³) | 8 mg/m ³ |
| Austria | MAK (OEL TWA) (ppm) | 5 ppm |
| Austria | MAK (OEL STEL) (mg/m ³) | 15 mg/m ³ |
| Austria | MAK (OEL STEL) (ppm) | 10 ppm |
| Belgium | Local name | Hydrogène (chlorure d') # Waterstofchloride |
| Belgium | OEL TWA (mg/m ³) | 8 mg/m ³ |
| Belgium | OEL TWA (ppm) | 5 ppm |
| Belgium | OEL STEL (mg/m ³) | 15 mg/m ³ |
| Belgium | OEL STEL (ppm) | 10 ppm |
| Germany | TRGS 900 Local name | Hydrogenchlorid |
| Germany | TRGS 900 Occupational Exposure Limit Value (mg/m ³) | 3 mg/m ³ |
| 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 ³) | 8 mg/m ³ |
| Luxembourg | OEL TWA (ppm) | 5 ppm |
| Luxembourg | OEL STEL (mg/m ³) | 15 mg/m ³ |
| Luxembourg | OEL STEL (ppm) | 10 ppm |
| Switzerland | Local name | Acide chlorhydrique / Chlorwasserstoff [Salzsäure] |
| Switzerland | MAK (mg/m ³) | 3 mg/m ³ |
| Switzerland | MAK (ppm) | 2 ppm |
| Switzerland | KZGW (mg/m ³) | 6 mg/m ³ |
| Switzerland | KZGW (ppm) | 4 ppm |
| Switzerland | Notation | SSC |

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

DNEL/DMEL (Workers)

Acute - local effects, inhalation

15 mg/m³

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

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 ³ 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.