

## The Safety Data Sheet is usable for:

| REF     | Name         |
|---------|--------------|
| DEE1900 | 5-HIAA ELISA |

### Single components with dangerous ingredients:

| REF       | Name                |             |
|-----------|---------------------|-------------|
| BA E-0041 | Diluent             | DILUENT     |
| BA E-0080 | Stop Solution       | STOP-SOLN   |
| BA E-1937 | Methylation Buffer  | METHYL-BUFF |
| BA E-1939 | Methylation Reagent | METHYL-REAG |

### Standards and Controls:

|           |            |            |
|-----------|------------|------------|
| BA E-1901 | Standard A | STANDARD A |
| BA E-1902 | Standard B | STANDARD B |
| BA E-1903 | Standard C | STANDARD C |
| BA E-1904 | Standard D | STANDARD D |
| BA E-1905 | Standard E | STANDARD E |
| BA E-1906 | Standard F | STANDARD F |
| BA E-1951 | Control 1  | CONTROL 1  |
| BA E-1952 | Control 2  | CONTROL 2  |

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

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Diluent BA E-0041  
 UFI : -

#### 1.2. Relevant identified uses of the 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

Demeditec Diagnostics GmbH  
 Lise-Meitner-Str. 2  
 24145 Kiel, Germany  
 Phone +49 431 71922 0  
 E-mail info@demeditec.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company       | Address                                    | Emergency telephone number                           |
|---------|----------------------------|--|--|
| Germany | Demeditec Diagnostics GmbH | Lise-Meitner-Str. 2<br>24145 Kiel, Germany | +49 431 71922 0<br>(during opening times 8:00-16:30) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1 H290

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Warning  
 Hazard statements (CLP) : H290 - May be corrosive to metals.  
 Precautionary statements (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 pictograms (CLP) : -  
 Signal word (CLP) : -  
 Hazard statements (CLP) : -  
 Precautionary statements (CLP) : -

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### 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.

## SECTION 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<br>(EC Index-No) 017-002-01-X | < 1 | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>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<br>(EC Index-No) 017-002-01-X | (10 ≤ C < 25) Skin Irrit. 2, H315<br>(10 ≤ C < 25) Eye Irrit. 2, H319<br>(10 ≤ C ≤ 100) STOT SE 3, H335<br>(25 ≤ C ≤ 100) Skin Corr. 1B, H314 |

Full text of H-statements: see section 16

## SECTION 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. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Drink plenty of water as a precaution.

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

- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## SECTION 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.

## SECTION 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.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up : 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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight. Keep out of frost.

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

Incompatible materials : Metals.

### 7.3. Specific end use(s)

Laboratory reagent, Immunoassays

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Hydrochloric acid ... % (EC 231-595-7) |   |  |
|--|---|--|
| EU                                     | Local name  | Hydrogen chloride                                  |
| EU                                     | IOELV TWA (mg/m <sup>3</sup> )                                  | 8 mg/m <sup>3</sup>                                |
| EU                                     | IOELV TWA (ppm)   | 5 ppm  |
| EU                                     | IOELV STEL (mg/m <sup>3</sup> )                                 | 15 mg/m <sup>3</sup>                               |
| EU                                     | IOELV STEL (ppm)  | 10 ppm   |
| Austria                                | Local name  | Chlorwasserstoff                                   |
| Austria                                | MAK (OEL TWA) (mg/m <sup>3</sup> )                              | 8 mg/m <sup>3</sup>                                |
| Austria                                | MAK (OEL TWA) (ppm)   | 5 ppm  |
| Austria                                | MAK (OEL STEL) (mg/m <sup>3</sup> )                             | 15 mg/m <sup>3</sup>                               |
| Austria                                | MAK (OEL STEL) (ppm)  | 10 ppm   |
| Belgium                                | Local name  | Hydrogène (chlorure d') # Waterstofchloride        |
| Belgium                                | OEL TWA (mg/m <sup>3</sup> )                                    | 8 mg/m <sup>3</sup>                                |
| Belgium                                | OEL TWA (ppm)   | 5 ppm  |
| Belgium                                | OEL STEL (mg/m <sup>3</sup> )                                   | 15 mg/m <sup>3</sup>                               |
| Belgium                                | OEL STEL (ppm)  | 10 ppm   |
| Germany                                | TRGS 900 Local name   | Hydrogenchlorid                                    |
| Germany                                | TRGS 900 Occupational Exposure Limit Value (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup>                                |
| Germany                                | TRGS 900 Occupational Exposure Limit Value (ppm)                | 2 ppm  |
| Germany                                | TRGS 900 Remark   | 2(l), DFG, EU, Y                                   |
| Luxembourg                             | Local name  | Chlorure d'hydrogène                               |
| Luxembourg                             | OEL TWA (mg/m <sup>3</sup> )                                    | 8 mg/m <sup>3</sup>                                |
| Luxembourg                             | OEL TWA (ppm)   | 5 ppm  |
| Luxembourg                             | OEL STEL (mg/m <sup>3</sup> )                                   | 15 mg/m <sup>3</sup>                               |
| Luxembourg                             | OEL STEL (ppm)  | 10 ppm   |
| Switzerland                            | Local name  | Acide chlorhydrique / Chlorwasserstoff [Salzsäure] |
| Switzerland                            | MAK (mg/m <sup>3</sup> )  | 3 mg/m <sup>3</sup>                                |
| Switzerland                            | MAK (ppm)   | 2 ppm  |
| Switzerland                            | KZGW (mg/m <sup>3</sup> )                                       | 6 mg/m <sup>3</sup>                                |
| Switzerland                            | KZGW (ppm)  | 4 ppm  |
| Switzerland                            | Notation  | SSC  |

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

### 8.2. Exposure controls

#### Appropriate engineering controls:

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

#### Hand protection:

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

#### Eye protection:

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing.

#### Respiratory protection:

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

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

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

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### SECTION 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.

### SECTION 11: Toxicological information

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

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

| Hydrochloric acid ... % (EC 231-595-7) |                               |
|--|-------------------------------|
| LC50 inhalation rat                    | 7051 mg/m <sup>3</sup> 30 min |

Skin corrosion/irritation : Not classified  
Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified  
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : 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

### SECTION 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, <i>Lepomis macrochirus</i> |
| EC50 crustacea                         | pH 4.92 48 h, <i>Daphnia magna</i>             |
| EC50 algae                             | pH 4.7 72 h, <i>Chlorella vulgaris</i>         |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 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. |

## SECTION 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)

#### ADR

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

#### IMDG

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

#### IATA

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

### 14.4. Packing group

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

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

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

Not applicable

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### SECTION 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

#### Germany

Water hazard class (WGK) : WGK 1 - Slightly hazardous to water  
WGK Remark : Classification according to AwSV, Annex 1  
Storage class (LGK) : LGK 10 - 13  
Employment restrictions : Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : -

#### Abbreviations and acronyms:

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

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|      |                                   |
|------|-----------------------------------|
| 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.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Stop Solution BA E-0080  
 UFI : -

#### 1.2. Relevant identified uses of the 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

Demeditec Diagnostics GmbH  
 Lise-Meitner-Str. 2  
 24145 Kiel, Germany  
 Phone +49 431 71922 0  
 E-mail info@demeditec.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company       | Address                                    | Emergency telephone number                           |
|---------|----------------------------|--|--|
| Germany | Demeditec Diagnostics GmbH | Lise-Meitner-Str. 2<br>24145 Kiel, Germany | +49 431 71922 0<br>(during opening times 8:00-16:30) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1 H290

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H290 - May be corrosive to metals.

Precautionary statements (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 pictograms (CLP) : -

Signal word (CLP) : -

Hazard statements (CLP) : -

Precautionary statements (CLP) : -

#### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

# Stop Solution BA E-0080

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### SECTION 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<br>(EC-No.) 231-639-5<br>(EC Index-No.) 016-020-00-8 | < 5 | Met. Corr. 1, H290<br>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<br>(EC-No.) 231-639-5<br>(EC Index-No.) 016-020-00-8 | (5 ≤ C < 15) Eye Irrit. 2, H319<br>(5 ≤ C < 15) Skin Irrit. 2, H315<br>(C ≥ 15) Skin Corr. 1A, H314 |

Full text of H-statements: see section 16

### SECTION 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 symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

### SECTION 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.

### SECTION 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.

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### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight. Keep out of frost.

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

Incompatible materials : Metals.

### 7.3. Specific end use(s)

Laboratory reagent, Immunoassays

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

### 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:

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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.

## SECTION 9: Physical and chemical properties

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

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

## SECTION 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.

## SECTION 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/m <sup>3</sup> |
|---------------------|-----------------------|

|                           |  |
|---------------------------|--|
| Skin corrosion/irritation | : Not classified   |
|                           | Based on available data, the classification criteria are not met |

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|  |  |
|--|--|
| Serious eye damage/irritation                      | : Not classified<br>Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation                  | : Not classified<br>Based on available data, the classification criteria are not met |
| Germ cell mutagenicity                             | : Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity                                    | : Not classified<br>Based on available data, the classification criteria are not met |
| Reproductive toxicity                              | : Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure)   | : Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (repeated exposure) | : Not classified<br>Based on available data, the classification criteria are not met |
| Aspiration hazard                                  | : Not classified<br>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

## SECTION 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, <i>Lepomis macrochirus</i> |
| EC50 crustacea             | > 100 mg/l 48 h, <i>Daphnia magna</i>             |
| EC50 algae                 | > 100 mg/l 72 h, <i>Desmodesmus subspicatus</i>   |
| NOEC chronic fish          | 0.31 mg/l 213 d, <i>Salvelinus fontinalis</i>     |
| NOEC chronic crustacea     | 0.15 mg/l, <i>Tanytarsus dissimilis</i>           |

### 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

## SECTION 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.

## SECTION 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

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### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

#### ADR

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

#### IMDG

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

#### IATA

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

### 14.4. Packing group

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

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

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

Not applicable

## SECTION 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

##### Germany

Water hazard class (WGK) : WGK 1 - Slightly hazardous to water  
WGK Remark : Classification according to AwSV, Annex 1  
Storage class (LGK) : LGK 10 - 13  
Employment restrictions : Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : -

Abbreviations and acronyms:

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

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|         |   |
|---------|---|
| 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.                         |

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.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Methylation Buffer BA E-1937  
 UFI : -

#### 1.2. Relevant identified uses of the 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

Demeditec Diagnostics GmbH  
 Lise-Meitner-Str. 2  
 24145 Kiel, Germany  
 Phone +49 431 71922 0  
 E-mail info@demeditec.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company       | Address                                    | Emergency telephone number                           |
|---------|----------------------------|--|--|
| Germany | Demeditec Diagnostics GmbH | Lise-Meitner-Str. 2<br>24145 Kiel, Germany | +49 431 71922 0<br>(during opening times 8:00-16:30) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225  
 Acute toxicity (oral), Category 3 H301  
 Acute toxicity (dermal), Category 3 H311  
 Acute toxicity (inhalation), Category 3 H331  
 Specific target organ toxicity — Single exposure, Category 1 H370

Full text of H-statements: see section 16

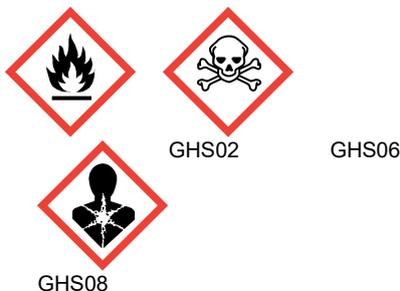
Adverse physicochemical, human health and environmental effects

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 elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Danger  
 Hazardous ingredients : Methanol  
 Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.  
 H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.  
 H370 - Causes damage to organs (eye, central nervous system).  
 Precautionary statements (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 protective gloves/protective clothing/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.

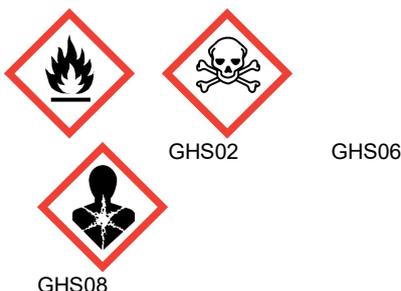
# Methylation Buffer BA E-1937

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

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Hazardous ingredients : Methanol

Hazard statements (CLP) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.  
H370 - Causes damage to organs (eye, central nervous system).

Precautionary statements (CLP) : P260 – Do not breathe fume/gas/mist/vapours/spray.  
P280 – Wear protective gloves/protective clothing/eye protection.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
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.

## SECTION 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<br>(EC no) 200-664-3                               | 40 - 60 | Not classified   |
| Methanol           | (CAS no) 67-56-1<br>(EC no) 200-659-6<br>(EC index no) 603-001-00-X | 20 - 50 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Oral), H301<br>STOT SE 1, H370 |

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

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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

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

First-aid measures after skin contact : Take off immediately all contaminated clothing. IF ON SKIN: Wash with plenty of soap and water. Get medical advice/attention if you feel unwell.

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

First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Drink water as a precaution.

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

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

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

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

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

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

Treat symptomatically.

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### SECTION 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.

### SECTION 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 regulations.

#### 6.4. Reference to other sections

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Remove all sources of ignition. No open flames. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

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

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
- Storage conditions : Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Keep in fireproof place. Protect from direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store locked up.
- Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

#### 7.3. Specific end use(s)

- Laboratory reagent, Immunoassays.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Dimethyl sulfoxide (67-68-5) |            |                  |
|------------------------------|------------|------------------|
| Austria                      | Local name | Dimethylsulfoxid |

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

| <b>Methanol (67-56-1)</b> |   |   |
|---------------------------|---|---|
| EU                        | Local name  | Methanol                                |
| EU                        | IOELV TWA (mg/m <sup>3</sup> )                                  | 260 mg/m <sup>3</sup>                   |
| EU                        | IOELV TWA (ppm)   | 200 ppm                                 |
| EU                        | Annotation  | Skin                                    |
| Austria                   | Local name  | Methanol                                |
| Austria                   | MAK (OEL TWA) (mg/m <sup>3</sup> )                              | 295 mg/m <sup>3</sup>                   |
| Austria                   | MAK (OEL TWA) (ppm)   | 100 ppm                                 |
| Austria                   | MAK (OEL STEL) (mg/m <sup>3</sup> )                             | 590 mg/m <sup>3</sup>                   |
| Austria                   | MAK (OEL STEL) (ppm)  | 200 ppm                                 |
| Austria                   | Remark (AT)   | H                                       |
| Belgium                   | Local name  | Alcool méthylique # Methanol            |
| Belgium                   | OEL TWA (mg/m <sup>3</sup> )                                    | 266 mg/m <sup>3</sup>                   |
| Belgium                   | OEL TWA (ppm)   | 200 ppm                                 |
| Belgium                   | OEL STEL (mg/m <sup>3</sup> )                                   | 333 mg/m <sup>3</sup>                   |
| 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 <sup>3</sup> ) | 130 mg/m <sup>3</sup>                   |
| 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<br>parameter: Methanol  |
| Luxembourg                | Local name  | Méthanol                                |
| Luxembourg                | OEL TWA (mg/m <sup>3</sup> )                                    | 260 mg/m <sup>3</sup>                   |
| Luxembourg                | OEL TWA (ppm)   | 200 ppm                                 |
| Luxembourg                | Mention   | Peau                                    |
| Switzerland               | Local name  | Méthanol / Methanol [Methylalkohol]     |
| Switzerland               | MAK (mg/m <sup>3</sup> )  | 260 mg/m <sup>3</sup>                   |
| Switzerland               | MAK (ppm)   | 200 ppm                                 |
| Switzerland               | KZGW (mg/m <sup>3</sup> )                                       | 520 mg/m <sup>3</sup>                   |
| Switzerland               | KZGW (ppm)  | 400 ppm                                 |
| Switzerland               | Notation (CH)   | H, B, SSc                               |
| Switzerland               | BAT Values  | 30 mg/l, U, b, c<br>parameter: Methanol |

| <b>Dimethyl sulfoxide (67-68-5)</b>      |                           |  |
|--|---------------------------|--|
| <b>DNEL/DMEL (Workers)</b>               |                           |  |
| Long-term - systemic effects, dermal     | 365 mg/kg bodyweight/day  |  |
| Long-term - systemic effects, inhalation | 75 mg/m <sup>3</sup>      |  |
| Long-term - local effects, inhalation    | 17.67 mg/m <sup>3</sup>   |  |
| <b>DNEL/DMEL (General population)</b>    |                           |  |
| Long-term - systemic effects, oral       | 1.67 mg/kg bodyweight/day |  |
| Long-term - systemic effects, inhalation | 56 mg/m <sup>3</sup>      |  |
| Long-term - systemic effects, dermal     | 178 mg/kg bodyweight/day  |  |

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| <b>Dimethyl sulfoxide (67-68-5)</b>      |                         |
|--|-------------------------|
| Long-term - local effects, inhalation    | 3.13 mg/m <sup>3</sup>  |
| <b>PNEC (Water)</b>                      |                         |
| PNEC aqua (freshwater)                   | 17 mg/l                 |
| PNEC aqua (marine water)                 | 1.7 mg/l                |
| <b>PNEC (Sediment)</b>                   |                         |
| PNEC sediment (freshwater)               | 61.4 mg/kg dry weight   |
| PNEC sediment (marine water)             | 6.14 mg/kg dry weight   |
| <b>PNEC (Soil)</b>                       |                         |
| PNEC soil                                | 2.32 mg/kg dry weight   |
| <b>PNEC (Oral)</b>                       |                         |
| PNEC oral (secondary poisoning)          | 0.7 g/kg food           |
| <b>PNEC (STP)</b>                        |                         |
| PNEC sewage treatment plant              | 11 mg/l                 |
| <b>Methanol (67-56-1)</b>                |                         |
| <b>DNEL/DMEL (Workers)</b>               |                         |
| Acute - systemic effects, dermal         | 20 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation     | 130 mg/m <sup>3</sup>   |
| Acute - local effects, inhalation        | 130 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal     | 20 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 130 mg/m <sup>3</sup>   |
| Long-term - local effects, inhalation    | 130 mg/m <sup>3</sup>   |
| <b>DNEL/DMEL (General population)</b>    |                         |
| Acute - systemic effects, dermal         | 4 mg/kg bodyweight/day  |
| Acute - systemic effects, inhalation     | 26 mg/m <sup>3</sup>    |
| Acute - systemic effects, oral           | 4 mg/kg bodyweight/day  |
| Acute - local effects, inhalation        | 26 mg/m <sup>3</sup>    |
| Long-term - systemic effects, oral       | 4 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalativ  | 26 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 4 mg/kg bodyweight/day  |
| Long-term - local effects, inhalation    | 26 mg/m <sup>3</sup>    |

### 8.2. Exposure controls

#### Appropriate engineering controls:

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

#### Hand protection:

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

#### Eye protection:

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing. Flame retardant antistatic protective clothing.

#### Respiratory protection:

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

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Colour : Colourless

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|  |                                      |
|--|--------------------------------------|
| Odour  | : Alcoholic                          |
| Melting point/freezing point                             | : No data available                  |
| Boiling point or initial boiling point and boiling range | : No data available                  |
| Flammability   | : Highly flammable liquid and vapour |
| Lower and upper explosion limit                          | : No data available                  |
| Flash point  | : No data available                  |
| Auto-ignition temperature                                | : No data available                  |
| Decomposition temperature                                | : No data available                  |
| pH   | : No data available                  |
| Kinematic viscosity                                      | : No data available                  |
| Solubility   | : No data available                  |
| Partition coefficient n-octanol/water (log value)        | : Not applicable                     |
| Vapour pressure  | : No data available                  |
| Density and/or relative density                          | : No data available                  |
| Relative vapour density                                  | : No data available                  |
| Particle size  | : Not applicable                     |

### 9.2. Other information

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

|                      |  |
|----------------------|--|
| Explosive properties | : May form flammable/explosive vapour-air mixture. |
| Oxidising properties | : No oxidising properties.                         |

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 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.

## SECTION 11: Toxicological information

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

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

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

| Methanol (67-56-1)            |   |
|-------------------------------|---|
| LD50 oral rat                 | 1187 - 2769 mg/kg (15 - 35 % in solution) |
| LC50 inhalation rat (Vapours) | 128.2 mg/l air, 4 h                       |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Not classified<br>Based on available data, the classification criteria are not met |
| Serious eye damage/irritation     | : Not classified<br>Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | : Not classified<br>Based on available data, the classification criteria are not met |
| Germ cell mutagenicity            | : Not classified<br>Based on available data, the classification criteria are not met |

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|  |  |
|--|--|
| Carcinogenicity                                    | : Not classified<br>Based on available data, the classification criteria are not met |
| Reproductive toxicity                              | : Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure)   | : Causes damage to organs (eye, central nervous system).                             |
| Specific target organ toxicity (repeated exposure) | : Not classified<br>Based on available data, the classification criteria are not met |
| Aspiration hazard                                  | : Not classified<br>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 |
|---|--|

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |                  |
|--------------------------|------------------|
| Acute aquatic toxicity   | : Not classified |
| Chronic aquatic toxicity | : Not classified |

| Dimethyl sulfoxide (67-68-5) |   |
|------------------------------|---|
| LC50 fish                    | 25000 mg/l 96 h, Danio rerio              |
| EC50 daphnia                 | 24600 mg/l 48 h, Daphnia magna            |
| ErC50 algae                  | 17000 mg/l 72 h, Raphidocelis subcapitata |

| Methanol (67-56-1) |   |
|--------------------|---|
| LC50 fish          | 15400 mg/l 96 h, Lepomis macrochirus        |
| EC50 daphnia       | 18260 mg/l 96 h, Daphnia magna              |
| ErC50 algae        | ~ 22000 mg/l 96 h, Raphidocelis subcapitata |

### 12.2. Persistence and degradability

| Dimethyl sulfoxide (67-68-5)  |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation                | 31 %, 28 d                 |

| Methanol (67-56-1)            |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | 97 %, 20 d             |

### 12.3. Bioaccumulative potential

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

| Methanol (67-56-1)                              |               |
|---|---------------|
| Partition coefficient n-octanol/water (Log Pow) | -0,77 (20 °C) |

### 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

## SECTION 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. |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

### 14.1. UN number or ID number

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

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UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

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

#### IMDG

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

#### IATA

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

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

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

Not applicable

## SECTION 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

##### Germany

Water hazard class (WGK) : WGK 2 - Significantly hazardous to water

WGK Remark : Classification according to AwSV, Annex 1

Storage class (LGK) : LGK 3 - Flammable liquids

Employment restrictions : Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed. Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : -

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### 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.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Methylation Reagent BA E-1939  
 UFI : -

#### 1.2. Relevant identified uses of the 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

Demeditec Diagnostics GmbH  
 Lise-Meitner-Str. 2  
 24145 Kiel, Germany  
 Phone +49 431 71922 0  
 E-mail info@demeditec.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company       | Address                                    | Emergency telephone number                           |
|---------|----------------------------|--|--|
| Germany | Demeditec Diagnostics GmbH | Lise-Meitner-Str. 2<br>24145 Kiel, Germany | +49 431 71922 0<br>(during opening times 8:00-16:30) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|  |       |
|--|-------|
| Flammable liquids, Category 2  | H225  |
| Aspiration hazard, Category 1  | H304  |
| Skin corrosion/irritation, Category 2                                  | H315  |
| Acute toxicity (inhalation), Category 2                                | H330  |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336  |
| Carcinogenicity, Category 1B   | H350  |
| Reproductive toxicity, Category 2                                      | H361f |
| Specific target organ toxicity — Single exposure, Category 1           | H370  |
| Specific target organ toxicity – Repeated exposure, Category 2         | H373  |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2      | H411  |

Full text of H-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Fatal if inhaled. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging fertility. Causes damage to organs (lungs, inhalation). May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS06

GHS08



GHS09

EN (English)

|                         |   |
|-------------------------|---|
| Signal word (CLP)       | : Danger  |
| Hazardous ingredients   | : Hexane, branched and linear, (Trimethylsilyl)diazomethane |
| Hazard statements (CLP) | : H225 - Highly flammable liquid and vapour.                |

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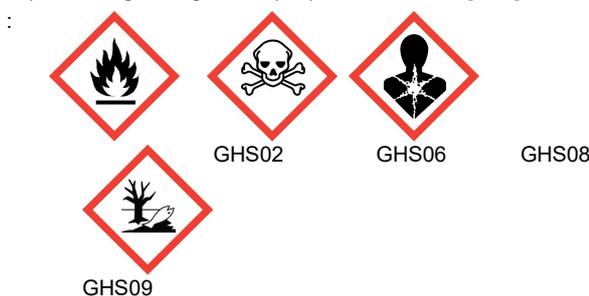
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H330 - Fatal if inhaled.  
H336 - May cause drowsiness or dizziness.  
H350 - May cause cancer.  
H361f - Suspected of damaging fertility.  
H370 - Causes damage to organs (lungs, inhalation).  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.

### Precautionary statements (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.  
P331 - Do NOT induce vomiting.

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

### Hazard pictograms (CLP)



### Signal word (CLP)

: Danger

### Hazardous ingredients

: Hexane, branched and linear, (Trimethylsilyl)diazomethane

### Hazard statements (CLP)

: H304 - May be fatal if swallowed and enters airways.  
H330 - Fatal if inhaled.  
H350 - May cause cancer.  
H361f - Suspected of damaging fertility.  
H370 - Causes damage to organs (lungs, inhalation).

### Precautionary statements (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.  
P331 - Do NOT induce vomiting.

### 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.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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

Full text of H-statements: see section 16

## SECTION 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 this sheet.

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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.

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|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.   |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. IF ON SKIN: Wash with plenty of soap and water.   |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  |
| First-aid measures after ingestion    | : Do NOT induce vomiting - aspiration hazard. Pneumonia and pulmonary oedema possible. Rinse mouth. Drink water as a precaution. Immediately call a POISON CENTER/doctor. |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects general            | : May cause cancer. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. |
| Symptoms/effects after inhalation   | : Fatal if inhaled. May cause drowsiness or dizziness. Causes damage to organs (lungs, inhalation).                     |
| Symptoms/effects after skin contact | : Causes skin irritation.   |
| Symptoms/effects after ingestion    | : May be fatal if swallowed and enters airways.   |

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

Treat symptomatically.

## SECTION 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. 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.   |

## SECTION 6: Accidental release measures

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

|                                    |   |
|------------------------------------|---|
| General measures                   | : Provide adequate ventilation. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid contact with skin and eyes. Do not breathe vapours/spray. |
| 6.1.1. For non-emergency personnel |   |
| Emergency procedures               | : Evacuate unnecessary personnel.   |
| 6.1.2. For emergency responders    |   |
| Protective equipment               | : Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.   |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

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

### 6.4. Reference to other sections

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

## SECTION 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. |

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Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

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

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

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

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

### 7.3. Specific end use(s)

Laboratory reagent, Immunoassays.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Hexane, branched and linear (92112-69-1) |   |   |
|--|---|---|
| Austria                                  | Local name  | Hydrocarbons vapour   |
| Austria                                  | MAK (OEL TWA) (ppm)   | 200 ppm (Mixtures of hydrocarbons: aromatic hydrocarbons < 1 %, n-hexane < 5 %, cyclohexanes/isohexanes < 25 %) |
| Austria                                  | MAK (OEL TWA) (ppm)   | 170 ppm (Mixtures of hydrocarbons: aromatic hydrocarbons < 1 %, n-hexane < 5 %, cyclohexanes/isohexanes ≥ 25 %) |
| Germany                                  | TRGS 900 Occupational Exposure Limit Value (mg/m <sup>3</sup> ) | 700 mg/m <sup>3</sup> aliphatic hydrocarbons (C6-C8)  |
| Germany                                  | TRGS 900 Remark   | 2(II), AGS  |

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

### 8.2. Exposure controls

#### Appropriate engineering controls:

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

#### Hand protection:

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

### Eye protection:

Wear safety glasses (EN 166).

### Skin and body protection:

Wear suitable protective clothing. Flame retardant antistatic protective clothing.

### Respiratory protection:

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

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|  |                                      |
|--|--------------------------------------|
| Physical state   | : Liquid                             |
| Colour   | : Yellow, clear                      |
| Odour  | : No data available                  |
| Melting point/freezing point                             | : No data available                  |
| Boiling point or initial boiling point and boiling range | : 96 °C                              |
| Flammability   | : Highly flammable liquid and vapour |
| Lower and upper explosion limit                          | : No data available                  |
| Flash point  | : -23 °C                             |
| Auto-ignition temperature                                | : No data available                  |
| Decomposition temperature                                | : No data available                  |
| pH   | : No data available                  |
| Kinematic viscosity                                      | : No data available                  |
| Solubility   | : Water: insoluble                   |
| Partition coefficient n-octanol/water (log value)        | : Not applicable                     |
| Vapour pressure  | : No data available                  |
| Density and/or relative density                          | : 0.718                              |
| 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

## SECTION 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. Nitrogen oxides. Silicon dioxide.

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### SECTION 11: Toxicological information

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

Acute toxicity : Fatal if inhaled.

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

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Not classified  
Based on available data, the classification criteria are not met  
Respiratory or skin sensitisation : Not classified  
Based on available data, the classification criteria are not met  
Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met  
Carcinogenicity : May cause cancer.  
Reproductive toxicity : Suspected of damaging fertility.  
Specific target organ toxicity (single exposure) : Causes damage to organs (lungs, inhalation). May cause drowsiness or dizziness.  
Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.  
Aspiration hazard : May be fatal if swallowed and enters airways.

#### 11.2. Information on other hazards

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

Acute aquatic toxicity : Not classified  
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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

#### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

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

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

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|                         |  |
|-------------------------|--|
| 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. |

### SECTION 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)

##### ADR

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

##### IMDG

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

##### IATA

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

#### 14.4. Packing group

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

#### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

#### 14.6. Special precautions for user

##### Overland transport

Not applicable

##### Transport by sea

Not applicable

##### Air transport

Not applicable

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

Not applicable

### SECTION 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

##### Germany

|                          |   |
|--------------------------|---|
| Water hazard class (WGK) | : WGK 3 - Highly hazardous to water   |
| WGK Remark               | : Classification according to AwSV, Annex 1   |
| Storage class (LGK)      | : LGK 3 - Flammable liquids   |
| Employment restrictions  | : Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed. Observe restrictions according Act on the Protection of Working Mothers (MuSchG). |

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : -

Abbreviations and acronyms:

|         |   |
|---------|---|
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road                               |
| CLP     | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                |
| DMEL    | Derived Minimal Effect Level  |
| DNEL    | Derived No-Effect Level   |
| EC50    | The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration) |
| 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                                |
| Aquatic Chronic 2         | Hazardous to the aquatic environment – Chronic Hazard, Category 2      |
| Asp. Tox. 1               | Aspiration hazard, Category 1  |
| Carc. 1B                  | Carcinogenicity, Category 1B   |
| Flam. Liq. 2              | Flammable liquids, Category 2  |
| Repr. 2                   | Reproductive toxicity, Category 2                                      |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                                  |
| STOT RE 2                 | Specific target organ toxicity – Repeated exposure, Category 2         |
| STOT SE 1                 | Specific target organ toxicity – Single exposure, Category 1           |
| STOT SE 3                 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |
| H225                      | Highly flammable liquid and vapour.                                    |
| H304                      | May be fatal if swallowed and enters airways.                          |
| H315                      | Causes skin irritation.  |
| H330                      | Fatal if inhaled.  |
| H336                      | May cause drowsiness or dizziness.                                     |
| H350                      | May cause cancer.  |
| H361f                     | Suspected of damaging fertility.                                       |
| H370                      | Causes damage to organs.   |
| H373                      | May cause damage to organs through prolonged or repeated exposure.     |
| H411                      | Toxic to aquatic life with long lasting effects.                       |

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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.



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## Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 14.07.2023

Revision date: -

Version/Replaced version: 1.0/-

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Standards and Controls BA E-1901, BA E-1902, BA E-1903, BA E-1904, BA E-1905, BA E-1906, BA E-1951 and BA E-1952  
UFI : -

#### 1.2. Relevant identified uses of the 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

Demeditec Diagnostics GmbH  
Lise-Meitner-Str. 2  
24145 Kiel, Germany  
Phone +49 431 71922 0  
E-mail info@demeditec.de

#### 1.4. Emergency telephone number

| Country | Organisation/Company       | Address                                    | Emergency telephone number                           |
|---------|----------------------------|--|--|
| Germany | Demeditec Diagnostics GmbH | Lise-Meitner-Str. 2<br>24145 Kiel, Germany | +49 431 71922 0<br>(during opening times 8:00-16:30) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1 H290

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Warning

Hazard statements (CLP) : H290 - May be corrosive to metals.

Precautionary statements (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  $\leq$  125 ml) according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : -

Signal word (CLP) : -

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Hazard statements (CLP) : -  
Precautionary statements (CLP) : -

### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 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<br>(EC Index-No) 017-002-01-X | < 1 | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>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<br>(EC Index-No) 017-002-01-X | (10 ≤ C < 25) Skin Irrit. 2, H315<br>(10 ≤ C < 25) Eye Irrit. 2, H319<br>(10 ≤ C ≤ 100) STOT SE 3, H335<br>(25 ≤ C ≤ 100) Skin Corr. 1B, H314 |

Full text of H-statements: see section 16

## SECTION 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. Call a physician immediately.

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

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

## SECTION 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.

## SECTION 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.

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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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight. Keep out of frost.

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

Incompatible materials : Metals.

### 7.3. Specific end use(s)

Laboratory reagent, Immunoassays

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

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| Hydrochloric acid ... % (EC 231-595-7) |                           |                     |
|--|---------------------------|---------------------|
| Switzerland                            | MAK (ppm)                 | 2 ppm               |
| Switzerland                            | KZGW (mg/m <sup>3</sup> ) | 6 mg/m <sup>3</sup> |
| Switzerland                            | KZGW (ppm)                | 4 ppm               |
| Switzerland                            | Notation                  | SSC                 |

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

### 8.2. Exposure controls

#### Appropriate engineering controls:

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

#### Hand protection:

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

#### Eye protection:

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing.

#### Respiratory protection:

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

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

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

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### 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

## SECTION 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.

## SECTION 11: Toxicological information

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

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

| Hydrochloric acid ... % (EC 231-595-7) |                               |
|--|-------------------------------|
| LC50 inhalation rat                    | 7051 mg/m <sup>3</sup> 30 min |

Skin corrosion/irritation : Not classified  
Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified  
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : 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

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

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EN (English)

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| 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

## SECTION 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. |

## SECTION 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)

#### ADR

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

#### IMDG

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

#### IATA

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

### 14.4. Packing group

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

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

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### 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

## SECTION 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

##### Germany

Water hazard class (WGK) : WGK 1 - Slightly hazardous to water

WGK Remark : Classification according to AwSV, Annex 1

Storage class (LGK) : LGK 10 - 13

Employment restrictions : Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : -

#### Abbreviations and acronyms:

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

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|      |  |
|------|--|
| 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.