

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## MagNA Pure LC Total Nucleic Acid Isolation Kit

Version  
6.0

Revision Date:  
30.01.2022

Date of last issue: 13.08.2021  
Date of first issue: 29.10.2012

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

#### 1.1 Product identifier

Trade name : MagNA Pure LC Total Nucleic Acid Isolation Kit  
Product code : 03038505001

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

Recommended restrictions : For use in research only  
on use

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

Company : Roche Diagnostics Deutschland GmbH  
Sandhoferstrasse 116  
68305 Mannheim  
Deutschland  
  
Telephone : +496217590  
Telefax : +496217592890  
Responsible Department : +49(0)621-759-4223  
E-mail address : info.dia-sds@roche.com

#### 1.4 Emergency telephone number

In case of emergencies: : Central Works Security +49(0)621-759-2203  
Roche Diagnostics GmbH  
  
Centre for detoxification: : Mainz +49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : **Danger**

Hazard statements : **H225 Highly flammable liquid and vapour.**

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|                                |   |                           |  |
|--------------------------------|---|---------------------------|--|
|                                |   | H302                      | Harmful if swallowed.  |
|                                |   | H314                      | Causes severe skin burns and eye damage.   |
|                                |   | H317                      | May cause an allergic skin reaction.   |
|                                |   | H334                      | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
|                                |   | H335                      | May cause respiratory irritation.  |
|                                |   | H336                      | May cause drowsiness or dizziness.   |
|                                |   | H412                      | Harmful to aquatic life with long lasting effects.   |
| Supplemental Hazard Statements | : | EUH032                    | Contact with acids liberates very toxic gas.   |
|                                |   | EUH071                    | Corrosive to the respiratory tract.  |
| Precautionary statements       | : | <b>Prevention:</b>        |  |
|                                |   | P210                      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.   |
|                                |   | P260                      | Do not breathe dust.   |
|                                |   | P280                      | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  |
|                                |   | <b>Response:</b>          |  |
|                                |   | P303 + P361 + P353        | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.   |
|                                |   | P304 + P340 + P310        | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.   |
|                                |   | P305 + P351 + P338 + P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. |
|                                |   | P342 + P311               | If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  |
|                                |   | P370 + P378               | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.   |

### 2.3 Other hazards

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### Wash Buffer I (d-WB I m/l)

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

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

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Acute toxicity, Category 4

H302: Harmful if swallowed.

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

### Components

| Chemical name        | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number    | Classification   | Concentration<br>(% w/w) |
|----------------------|--|--|--------------------------|
| guanidinium chloride | 50-01-1<br>200-002-3<br>607-148-00-0<br>01-2119977063-35 | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>475 mg/kg<br>Acute inhalation toxicity (dust/mist): 3,2 mg/l | >= 30,0 - < 50,0         |
| ethanol              | 64-17-5<br>200-578-6<br>603-002-00-5<br>01-2119457610-43 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319   | >= 20,0 - < 30,0         |

For explanation of abbreviations see section 16.

### Wash Buffer II (WB II)

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

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number    | Classification                           | Concentration<br>(% w/w) |
|---------------|--|--|--------------------------|
| ethanol       | 64-17-5<br>200-578-6<br>603-002-00-5<br>01-2119457610-43 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319 | >= 30,0 - < 50,0         |

For explanation of abbreviations see section 16.

### Wash Buffer III

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

Not a hazardous substance or mixture.

### Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

### Lysis/Binding Buffer

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

Acute toxicity, Category 4

H302: Harmful if swallowed.

Skin corrosion, Sub-category 1C

H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318: Causes serious eye damage.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number     | Classification  | Concentration<br>(% w/w) |
|--|---|---|--------------------------|
| guanidinium thiocyanate  | 593-84-0<br>209-812-1<br>615-004-00-3<br>01-2120735072-65 | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Corr. 1C; H314<br>Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412<br>EUH032, EUH071<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>593 mg/kg | >= 30,0 - <<br>50,0      |
| alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl) | 9002-93-1   | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Aquatic Chronic 2;<br>H411<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>500 mg/kg  | >= 20,0 - <<br>25,0      |

For explanation of abbreviations see section 16.

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### Proteinase K

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

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1

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

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

#### Components

| Chemical name                         | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|---------------------------------------|---|---|--------------------------|
| Proteinase, Tritirachium album serine | 39450-01-6<br>254-457-8<br>647-014-00-9               | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory system) | $\geq 70,0 - < 90,0$     |

For explanation of abbreviations see section 16.

### Magnetic Glass Particles Suspension

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

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number    | Classification  | Concentration<br>(% w/w) |
|---------------|--|---|--------------------------|
| propan-2-ol   | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system) | $\geq 90,0 - \leq 100,0$ |

For explanation of abbreviations see section 16.

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### Elution Buffer

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

Not a hazardous substance or mixture.

#### Components

Remarks : No hazardous ingredients

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- |                         |   |   |
|-------------------------|---|---|
| General advice          | : | Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| If inhaled              | : | Call a physician or poison control centre immediately.<br>Move to fresh air.<br>If unconscious, place in recovery position and seek medical advice.   |
| In case of skin contact | : | Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : | Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : | Clean mouth with water and drink afterwards plenty of water.<br>Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.  |

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

Symptoms : No information available.

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

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Hydrogen cyanide (hydrocyanic acid)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage : See label, package insert or internal guidelines



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age conditions

Storage class (TRGS 510) : 3, Flammable liquids

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : This product contains a substance on REACH Annex XIV (substance of very high concern due to endocrine disrupting properties for the environment) at or above 0.1% w/w and may only be used under the exemption from authorisation for scientific research and development (including analytical activities, quality control and In-Vitro Diagnostics) under controlled conditions. Only trained and authorised personnel is allowed to handle the substance.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### *Wash Buffer I (d-WB I m/l)*

##### Occupational Exposure Limits

| Components   | CAS-No. | Value type (Form of exposure) | Control parameters               | Basis       |
|--|---------|-------------------------------|----------------------------------|-------------|
| ethanol  | 64-17-5 | AGW                           | 200 ppm<br>380 mg/m <sup>3</sup> | DE TRGS 900 |
| Peak-limit: excursion factor (category): 4;(II)  |         |                               |                                  |             |
| Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |         |                               |                                  |             |

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value                  |
|----------------|---------|-----------------|--------------------------|------------------------|
| ethanol        | Workers | Inhalation      | Acute local effects      | 1900 mg/m <sup>3</sup> |
|                | Workers | Dermal          | Chronic effects          | 343 mg/kg              |
|                | Workers | Inhalation      | Chronic effects          | 950 mg/m <sup>3</sup>  |

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value      |
|----------------|---------------------------|------------|
| ethanol        | Fresh water               | 0,96 mg/l  |
|                | Marine water              | 0,79 mg/l  |
|                | Fresh water sediment      | 3,6 mg/kg  |
|                | Soil                      | 0,63 mg/kg |

#### *Wash Buffer II (WB II)*

##### Occupational Exposure Limits

| Components | CAS-No. | Value type (Form | Control parameters | Basis |
|------------|---------|------------------|--------------------|-------|
|------------|---------|------------------|--------------------|-------|

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|         |  |              |                                  |                |
|---------|--|--------------|----------------------------------|----------------|
|         |  | of exposure) |                                  |                |
| ethanol | 64-17-5  | AGW          | 200 ppm<br>380 mg/m <sup>3</sup> | DE TRGS<br>900 |
|         | Peak-limit: excursion factor (category): 4;(II)  |              |                                  |                |
|         | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |              |                                  |                |

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

| Substance name | End Use | Exposure routes | Potential health effects | Value                  |
|----------------|---------|-----------------|--------------------------|------------------------|
| ethanol        | Workers | Inhalation      | Acute local effects      | 1900 mg/m <sup>3</sup> |
|                | Workers | Dermal          | Chronic effects          | 343 mg/kg              |
|                | Workers | Inhalation      | Chronic effects          | 950 mg/m <sup>3</sup>  |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name | Environmental Compartment | Value      |
|----------------|---------------------------|------------|
| ethanol        | Fresh water               | 0,96 mg/l  |
|                | Marine water              | 0,79 mg/l  |
|                | Fresh water sediment      | 3,6 mg/kg  |
|                | Soil                      | 0,63 mg/kg |

**Wash Buffer III**

Contains no substances with occupational exposure limit values.

**Lysis/Binding Buffer****Occupational Exposure Limits**

| Components              | CAS-No.  | Value type (Form of exposure) | Control parameters            | Basis   |
|-------------------------|----------|-------------------------------|-------------------------------|---|
| guanidinium thiocyanate | 593-84-0 | IOEL                          | 100 microgram per cubic meter | Category 1 (Roche Group Directive K1, Annex 3): OEL = 100 µg/m <sup>3</sup> |

**Proteinase K****Occupational Exposure Limits**

| Components                            | CAS-No.    | Value type (Form of exposure) | Control parameters        | Basis                                     |
|---------------------------------------|------------|-------------------------------|---------------------------|---|
| Proteinase, Tritirachium album serine | 39450-01-6 | IOEL                          | 0,00006 mg/m <sup>3</sup> | Roche Industrial Hygiene Committee (RIHC) |

**Magnetic Glass Particles Suspension****Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------|---------|-------------------------------|--------------------|-------|
|------------|---------|-------------------------------|--------------------|-------|

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|             |  |              |                                  |                |
|-------------|--|--------------|----------------------------------|----------------|
|             |  | of exposure) |                                  |                |
| propan-2-ol | 67-63-0  | AGW          | 200 ppm<br>500 mg/m <sup>3</sup> | DE TRGS<br>900 |
|             | Peak-limit: excursion factor (category): 2;(II)  |              |                                  |                |
|             | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |              |                                  |                |

### Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters          | Sampling time   | Basis    |
|----------------|---------|-----------------------------|---|----------|
| propan-2-ol    | 67-63-0 | Acetone: 25 mg/l<br>(Blood) | Immediately after<br>exposure or after<br>working hours | TRGS 903 |
|                |         | Acetone: 25 mg/l<br>(Urine) | Immediately after<br>exposure or after<br>working hours | TRGS 903 |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects   | Value                 |
|----------------|---------|-----------------|----------------------------|-----------------------|
| propan-2-ol    | Workers | Dermal          | Long-term systemic effects | 888 mg/kg             |
|                | Workers | Inhalation      | Long-term systemic effects | 500 mg/m <sup>3</sup> |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value      |
|----------------|---------------------------|------------|
| propan-2-ol    | Fresh water               | 140,9 mg/l |
|                | Marine water              | 140,9 mg/l |
|                | Fresh water sediment      | 552 mg/kg  |
|                | Marine sediment           | 552 mg/kg  |
|                | Soil                      | 28 mg/kg   |

### Elution Buffer

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Engineering measures

No data available

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Use eye protection according to EN 166.

Hand protection

In case of contact through splashing:  
Material : Nitrile rubber  
Break through time : > 30 min  
Glove thickness : > 0,11 mm

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|                          |  |
|--------------------------|--|
|                          | In case of full contact:   |
| Material                 | : butyl-rubber   |
| Break through time       | : > 480 min  |
| Glove thickness          | : > 0,4 mm   |
| Remarks                  | : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Skin and body protection | : Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.  |
| Respiratory protection   | : In the case of vapour formation use a respirator with an approved filter.  |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### **Wash Buffer I (d-WB I m/l)**

|  |                       |
|--|-----------------------|
| Physical state                                   | : liquid              |
| Colour   | : colourless          |
| Odour  | : characteristic      |
| Odour Threshold                                  | : No data available   |
| Melting point/range                              | : No data available   |
| Boiling point/boiling range                      | : No data available   |
| Flammability                                     | : Sustains combustion |
| Upper explosion limit / Upper flammability limit | : No data available   |
| Lower explosion limit / Lower flammability limit | : No data available   |
| Flash point                                      | : 29 °C               |
| Auto-ignition temperature                        | : No data available   |

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|  |                           |
|--|---------------------------|
| Decomposition temperature              | : No data available       |
| pH                                     | : 6,6 (25 °C)             |
| Viscosity                              |                           |
| Viscosity, dynamic                     | : No data available       |
| Viscosity, kinematic                   | : No data available       |
| Solubility(ies)                        |                           |
| Water solubility                       | : completely miscible     |
| Solubility in other solvents           | : No data available       |
| Partition coefficient: n-octanol/water | : No data available       |
| Vapour pressure                        | : 43 hPa                  |
| Relative density                       | : No data available       |
| Density                                | : 1,057 g/cm <sup>3</sup> |
| Relative vapour density                | : No data available       |

### **Wash Buffer II (WB II)**

|  |                     |
|--|---------------------|
| Physical state                                   | : liquid            |
| Colour   | : colourless        |
| Odour  | : characteristic    |
| Odour Threshold                                  | : No data available |
| Melting point/range                              | : No data available |
| Boiling point/boiling range                      | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower flammability limit | : No data available |
| Flash point                                      | 25 °C               |
| Auto-ignition temperature                        | : No data available |
| Decomposition temperature                        | : No data available |
| pH   | : 7,4               |

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### Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

### Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : 43 hPa

Relative density : No data available

Density : 0,93 g/cm<sup>3</sup>

Relative vapour density : No data available

### **Wash Buffer III**

Physical state : liquid

Colour : colourless

Odour : none

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 4,0

### Viscosity

Viscosity, dynamic : No data available

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|  |   |                   |
|--|---|-------------------|
| Viscosity, kinematic                   | : | No data available |
| Solubility(ies)                        |   |                   |
| Water solubility                       | : | No data available |
| Solubility in other solvents           | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure                        | : | No data available |
| Relative density                       | : | No data available |
| Relative vapour density                | : | No data available |

### ***Lysis/Binding Buffer***

|  |   |  |
|--|---|--|
| Physical state                                   | : | liquid   |
| Colour   | : | colourless   |
| Odour  | : | odourless  |
| Odour Threshold                                  | : | No data available  |
| Melting point/range                              | : | No data available  |
| Boiling point/boiling range                      | : | No data available  |
| Flammability                                     | : | The product is not flammable., Does not sustain combustion.    |
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | No data available  |
| Flash point                                      |   | No data available  |
| Auto-ignition temperature                        | : | No data available  |
| Decomposition temperature                        | : | Hazardous decomposition products formed under fire conditions. |
| pH   | : | 6,0 - 7,0  |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | No data available  |
| Viscosity, kinematic                             | : | No data available  |
| Solubility(ies)                                  |   |  |

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Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Relative vapour density : No data available

### **Proteinase K**

Physical state : solid, (lyophilised)

Colour : white

Odour : very faint

Odour Threshold : Not applicable

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : Sustains combustion

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : does not flash

Auto-ignition temperature : No data available

Decomposition temperature : Decomposes on heating.

pH : 6,5  
(as aqueous solution)

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available



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Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Bulk density : ca. 35 kg/m<sup>3</sup>

Relative vapour density : Not applicable

### ***Magnetic Glass Particles Suspension***

Physical state : liquid

Colour : red brown

Odour : alcohol-like

Odour Threshold : No data available

Melting point/range : -89 °C

Boiling point/boiling range : 82 °C

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : 12 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 7,0

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : No data available

Solubility(ies)

    Water solubility : No data available

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

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Vapour pressure : 42 hPa (20 °C)  
Relative density : No data available  
Density : 0,78 g/cm<sup>3</sup>  
Relative vapour density : No data available

### **Elution Buffer**

Physical state : liquid  
Colour : colourless  
Odour : none  
Odour Threshold : No data available  
Melting point/range : No data available  
Boiling point/boiling range : No data available  
Flammability : The product is not flammable., Does not sustain combustion.  
Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower flammability limit : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
pH : 8,0  
Viscosity  
Viscosity, dynamic : No data available  
Viscosity, kinematic : No data available  
Solubility(ies)  
Water solubility : completely miscible  
Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : No data available  
Vapour pressure : No data available

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Relative density : No data available

Relative vapour density : No data available

### 9.2 Other information

#### **Wash Buffer I (d-WB I m/l)**

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Sustains combustion

Self-ignition : 425 °C

Evaporation rate : No data available

Miscibility with water : completely miscible

#### **Wash Buffer II (WB II)**

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : 425 °C

Evaporation rate : No data available

Miscibility with water : completely miscible

#### **Wash Buffer III**

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : completely miscible

#### **Lysis/Binding Buffer**

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

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Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : completely miscible

### ***Proteinase K***

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Sustains combustion

Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : No data available

### ***Magnetic Glass Particles Suspension***

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : 485 °C

Evaporation rate : No data available

Miscibility with water : completely miscible

### ***Elution Buffer***

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : Does not sustain combustion.

Self-ignition : No data available

Evaporation rate : No data available

Miscibility with water : completely miscible

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Toxic gases may be released if in contact with the following:  
sodium hypochlorite  
Acids  
Strong oxidizing agents  
No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

#### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents  
Cyanides  
sodium hypochlorite

#### 10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Sulphur oxides

Hydrogen cyanide (hydrocyanic acid)

### SECTION 11: Toxicological information

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

##### **Wash Buffer I (d-WB I m/l)**

##### **Acute toxicity**

Harmful if swallowed.

##### **Components:**

##### **guanidinium chloride:**

Acute oral toxicity : LD50 Oral (Rat, female): 475 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute toxicity estimate: 475 mg/kg  
Method: Calculation method

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- Acute inhalation toxicity : LC50 (Rat, female): 3,2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes
- LC50 (Rat, male and female): 5,32 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes
- LC50 (Rat, male): 7,7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes
- Acute toxicity estimate: 3,2 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method
- Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.
- ethanol:**
- Acute oral toxicity : LD50 (Rat, male and female): 10.470 mg/kg  
Method: OECD Test Guideline 401  
GLP: no
- Acute inhalation toxicity : LC50 (Rat, male and female): 124,7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: no
- Acute dermal toxicity : (Rabbit): 17.100 mg/kg  
GLP: No information available.  
Remarks: Based on data from similar materials

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### guanidinium chloride:

- Species : Rabbit  
Exposure time : 24 h  
Result : Irritating to skin.

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GLP : yes

### ethanol:

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### guanidinium chloride:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : yes

### ethanol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : No information available.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### guanidinium chloride:

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
GLP : yes

### ethanol:

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
GLP : no

Remarks : Based on data from similar materials

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### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### guanidinium chloride:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster fibroblasts  
Method: OECD Test Guideline 473  
Result: negative  
GLP: no

#### ethanol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Mouse (male)  
Application Route: Oral  
Dose: 10 or 40% ethanol in water  
Method: OECD Test Guideline 478  
Result: negative  
GLP: No information available.

### Carcinogenicity

Not classified based on available information.

### Components:

#### ethanol:

Species : Mouse, male and female  
Application Route : inhalation (vapour)  
Exposure time : 18 month(s)  
Control Group : yes  
Frequency of Treatment : 19 hours/day



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Method : OECD Test Guideline 453  
Result : negative  
GLP : No information available.  
Remarks : Based on data from similar materials

### Reproductive toxicity

Not classified based on available information.

#### Components:

##### **guanidinium chloride:**

Effects on foetal development : Species: Rat, female  
Application Route: Oral  
Dose: 50, 150, 350 mg/kg bw/day  
Duration of Single Treatment: 5 - 19 d  
Developmental Toxicity: NOAEL: 350 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

##### **ethanol:**

Effects on fertility : Test Type: Two-generation study  
Species: Mouse, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 20.700 mg/kg body weight  
Method: OECD Test Guideline 416  
Result: No effects on fertility  
GLP: No information available.

Effects on foetal development : Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: Ingestion  
Duration of Single Treatment: 6 Weeks  
Developmental Toxicity: NOAEL: 5.200 mg/kg body weight  
GLP: No information available.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

##### **guanidinium chloride:**

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Dose : 25, 100, 300 mg/kg bw/day  
Method : OECD Test Guideline 408  
GLP : yes

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### ethanol:

Species : Rat, male and female  
LOAEL : 3156 mg/kg  
Application Route : Oral  
Exposure time : 14 Weeks  
Dose : 0, 5, 10, 20 mg/Kg  
Method : OECD Test Guideline 408  
GLP : yes

### Aspiration toxicity

Not classified based on available information.

### Wash Buffer II (WB II)

### Acute toxicity

Not classified based on available information.

### Components:

#### ethanol:

Acute oral toxicity : LD50 (Rat, male and female): 10.470 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 124,7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: no

Acute dermal toxicity : (Rabbit): 17.100 mg/kg  
GLP: No information available.  
Remarks: Based on data from similar materials

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### ethanol:

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### ethanol:

Species : Rabbit  
Method : OECD Test Guideline 405

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Result : Irritating to eyes.  
GLP : No information available.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### ethanol:

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
GLP : no

Remarks : Based on data from similar materials

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### ethanol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Mouse (male)  
Application Route: Oral  
Dose: 10 or 40% ethanol in water  
Method: OECD Test Guideline 478  
Result: negative  
GLP: No information available.

### Carcinogenicity

Not classified based on available information.

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### Components:

#### **ethanol:**

Species : Mouse, male and female  
Application Route : inhalation (vapour)  
Exposure time : 18 month(s)  
Control Group : yes  
Frequency of Treatment : 19 hours/day  
Method : OECD Test Guideline 453  
Result : negative  
GLP : No information available.  
Remarks : Based on data from similar materials

### **Reproductive toxicity**

Not classified based on available information.

### Components:

#### **ethanol:**

Effects on fertility : Test Type: Two-generation study  
Species: Mouse, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 20.700 mg/kg body weight  
Method: OECD Test Guideline 416  
Result: No effects on fertility  
GLP: No information available.

Effects on foetal development : Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: Ingestion  
Duration of Single Treatment: 6 Weeks  
Developmental Toxicity: NOAEL: 5.200 mg/kg body weight  
GLP: No information available.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

### Components:

#### **ethanol:**

Species : Rat, male and female  
LOAEL : 3156 mg/kg  
Application Route : Oral  
Exposure time : 14 Weeks  
Dose : 0, 5, 10, 20 mg/Kg  
Method : OECD Test Guideline 408  
GLP : yes

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### Aspiration toxicity

Not classified based on available information.

### **Wash Buffer III**

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

### **Lysis/Binding Buffer**

#### Acute toxicity

Harmful if swallowed.

#### Components:

##### guanidinium thiocyanate:

Acute oral toxicity : LD50 Oral (Rat, female): 593 mg/kg  
Method: OECD Test Guideline 401  
Symptoms: Vomiting  
GLP: yes

Acute toxicity estimate: 593 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract., The component/mixture is moderately toxic after short term inhalation.

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Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

### **alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Acute oral toxicity : LD50 Oral (Rat): 1.900 - 5.000 mg/kg

Acute toxicity estimate: 500 mg/kg  
Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3.000 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

#### **Components:**

##### **guanidinium thiocyanate:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure  
GLP : yes

### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Components:**

### **alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Result : Risk of serious damage to eyes.  
Remarks : May cause irreversible eye damage.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

##### **guanidinium thiocyanate:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro

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Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: no

Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### Components:

#### guanidinium thiocyanate:

Effects on fertility : Species: Rat, female  
Application Route: Oral  
Dose: 25  
GLP: no  
Remarks: No significant adverse effects were reported  
Based on data from similar materials

Effects on foetal development : Species: Rat, female  
Application Route: Oral  
Dose: 50, 150, 350 mg/kg bw/day  
General Toxicity Maternal: NOAEL: 150 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL: 350 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

### STOT - single exposure

Corrosive to the respiratory tract.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Components:

#### guanidinium thiocyanate:

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 25, 100, 300 mg/kg bw/day  
Method : OECD Test Guideline 408

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GLP : yes

### Aspiration toxicity

Not classified based on available information.

### **Proteinase K**

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

#### Components:

##### Proteinase, Tritirachium album serine:

Result : Irritating to skin.  
Remarks : May cause skin irritation and/or dermatitis.

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

##### Proteinase, Tritirachium album serine:

Result : Irritating to eyes.  
Remarks : May cause irreversible eye damage.

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

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

#### Components:

##### Proteinase, Tritirachium album serine:

Assessment : May cause sensitisation by skin contact.  
Remarks : Causes sensitisation.

Assessment : May cause sensitisation by inhalation.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.



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### STOT - single exposure

May cause respiratory irritation.

#### Components:

#### Proteinase, Tritirachium album serine:

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

#### Proteinase, Tritirachium album serine:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration toxicity

Not classified based on available information.

#### Components:

#### Proteinase, Tritirachium album serine:

No data available

## Magnetic Glass Particles Suspension

### Acute toxicity

Not classified based on available information.

#### Components:

#### propan-2-ol:

Acute oral toxicity : LD50 (Rat): 5.840 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 10000 ppm  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): 13.900 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

#### propan-2-ol:

Species : Rabbit

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Exposure time : 4 h  
Result : No skin irritation  
GLP : no

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

##### propan-2-ol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : no  
Remarks : May cause irreversible eye damage.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### propan-2-ol:

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
GLP : yes

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### propan-2-ol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: no

Genotoxicity in vivo : Test Type: In vivo micronucleus test

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Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### Carcinogenicity

Not classified based on available information.

#### Components:

##### propan-2-ol:

Species : Rat, male and female  
Application Route : inhalation (vapour)  
Exposure time : 104 weeks  
Frequency of Treatment : 5 days/week  
Method : OECD Test Guideline 451  
GLP : yes

### Reproductive toxicity

Not classified based on available information.

#### Components:

##### propan-2-ol:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 853 mg/kg body weight  
Method: OECD Test Guideline 415  
GLP: yes

Effects on foetal development : Species: Rat, male and female  
Application Route: Oral  
Dose: 596, 1242, 1605 mg/kg bw/day  
Duration of Single Treatment: 6 - 16 d  
General Toxicity Maternal: NOAEL: 596 mg/kg body weight  
Developmental Toxicity: NOAEL: 596 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

### STOT - single exposure

May cause drowsiness or dizziness.

#### Components:

##### propan-2-ol:

Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

Not classified based on available information.

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### Repeated dose toxicity

#### Components:

##### propan-2-ol:

|                   |   |
|-------------------|---|
| Species           | : Rat, male and female                  |
| NOAEC             | : 5000                                  |
| Application Route | : Inhalation                            |
| Test atmosphere   | : vapour                                |
| Exposure time     | : 104 Weeks                             |
| Dose              | : 500, 2500, 5000 ppm parts per million |
| GLP               | : yes                                   |

### Aspiration toxicity

Not classified based on available information.

### ***Elution Buffer***

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.

##### Carcinogenicity

Not classified based on available information.

##### Reproductive toxicity

Not classified based on available information.

##### STOT - single exposure

Not classified based on available information.

##### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

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Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Wash Buffer I (d-WB I m/l)

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Product:

Remarks : Solvents may degrease the skin.

### Wash Buffer II (WB II)

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Product:

Remarks : Solvents may degrease the skin.

### Wash Buffer III

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Lysis/Binding Buffer

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### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### *Proteinase K*

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### *Magnetic Glass Particles Suspension*

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

### *Elution Buffer*

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### **Wash Buffer I (d-WB I m/l)**

###### Components:

###### **guanidinium chloride:**

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 1.758 mg/l  
End point: mortality  
Exposure time: 48 h  
Test Type: static test  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 70,2 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: No information available.
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 33,5 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: yes
- EC50 (Pseudokirchneriella subcapitata (green algae)): 11,8 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: yes
- NOEC (Pseudokirchneriella subcapitata (green algae)): 6,3 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: yes
- Toxicity to microorganisms : EC10 (Pseudomonas putida): 7.125 mg/l  
End point: Growth rate  
Exposure time: 18 h  
Test Type: static test  
Method: DIN 38 412 Part 8  
GLP: yes

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Toxicity to fish (Chronic toxicity) : NOEC: > 181 mg/l  
End point: mortality  
Exposure time: 35 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 210  
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,9 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: No information available.

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

### ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15.300 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: No information available.

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
Exposure time: 5 d  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: No information available.

Toxicity to microorganisms : IC50 (activated sludge): > 1.000 mg/l  
End point: Growth rate  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 209  
GLP: No information available.



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Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 250 mg/l  
Exposure time: 120 h  
Species: Danio rerio (zebra fish)  
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9,6 mg/l  
Exposure time: 7 d  
GLP: No information available.

### Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

### Wash Buffer II (WB II)

#### Components:

#### **ethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15.300 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: No information available.

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
Exposure time: 5 d  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: No information available.

Toxicity to microorganisms : IC50 (activated sludge): > 1.000 mg/l  
End point: Growth rate  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 209  
GLP: No information available.  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 250 mg/l  
Exposure time: 120 h  
Species: Danio rerio (zebra fish)  
GLP: No information available.

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9,6 mg/l  
Exposure time: 7 d  
GLP: No information available.

### Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

### Wash Buffer III

No data available

### Lysis/Binding Buffer

#### Components:

#### guanidinium thiocyanate:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 89,1 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 42,4 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: no

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 130 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
GLP: No information available.

Toxicity to microorganisms : EC50 (activated sludge): > 185 mg/l  
Exposure time: 28 d  
Test Type: static test  
Method: OECD Test Guideline 302B  
GLP: yes

### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

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### **alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4 - 8,9 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 18 - 26 mg/l  
aquatic invertebrates Exposure time: 48 h

### **Ecotoxicology Assessment**

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

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to : No data available  
the environment

## ***Proteinase K***

### **Components:**

**Proteinase, Tritirachium album serine:**

### **Ecotoxicology Assessment**

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to : No data available  
the environment

## ***Magnetic Glass Particles Suspension***

### **Components:**

#### **propan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10.000 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
aquatic invertebrates End point: Immobilization  
Exposure time: 24 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: no

Toxicity to algae/aquatic : EC10 (Scenedesmus quadricauda (Green algae)): 1.800 mg/l  
plants Exposure time: 7 d  
Test Type: static test  
Analytical monitoring: no  
GLP: no

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Toxicity to microorganisms : (Pseudomonas putida): 1.050 mg/l  
Exposure time: 16 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38 412 Part 8  
GLP: no

### Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

### Elution Buffer

No data available

### 12.2 Persistence and degradability

#### Wash Buffer I (d-WB I m/l)

##### Components:

##### **guanidinium chloride:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, adapted  
Concentration: 10 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 33 d  
Method: OECD Test Guideline 301C  
GLP: yes

Impact on Sewage Treatment : Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

##### **ethanol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d  
GLP: No information available.

#### Wash Buffer II (WB II)

##### Components:

##### **ethanol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d

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GLP: No information available.

### **Wash Buffer III**

No data available

### **Lysis/Binding Buffer**

#### **Components:**

##### **guanidinium thiocyanate:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 343 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 46 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B  
GLP: no

##### **alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Biodegradability : Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: According to the results of tests of biodegradability  
this product is not readily biodegradable.

### **Proteinase K**

No data available

### **Magnetic Glass Particles Suspension**

#### **Components:**

##### **propan-2-ol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 53 %  
Exposure time: 5 d  
GLP: no

### **Elution Buffer**

No data available

### **12.3 Bioaccumulative potential**

### **Wash Buffer I (d-WB I m/l)**

#### **Components:**

##### **guanidinium chloride:**

Partition coefficient: n-octanol/water : log Pow: < -1,7 (20 °C)  
pH: 7,4  
Method: OECD Test Guideline 107  
GLP: yes

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### ethanol:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: -0,35 (24 °C)  
pH: 7,4  
Method: OECD Test Guideline 107  
GLP: No information available.

### Wash Buffer II (WB II)

#### Components:

### ethanol:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: -0,35 (24 °C)  
pH: 7,4  
Method: OECD Test Guideline 107  
GLP: No information available.

### Wash Buffer III

No data available

### Lysis/Binding Buffer

#### Components:

### guanidinium thiocyanate:

Partition coefficient: n-octanol/water : log Pow: -1,11 (25 °C)  
pH: > 5,1  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: no

### alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : Remarks: No data available

### Proteinase K

#### Components:

### Proteinase, Tritirachium album serine:

Partition coefficient: n-octanol/water : Remarks: No data available

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### **Components:**

#### **propan-2-ol:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0,05 (25 °C)  
GLP: no

### ***Elution Buffer***

No data available

### **12.4 Mobility in soil**

#### ***Wash Buffer I (d-WB I m/l)***

No data available

#### ***Wash Buffer II (WB II)***

No data available

#### ***Wash Buffer III***

No data available

#### ***Lysis/Binding Buffer***

No data available

#### ***Proteinase K***

No data available

#### ***Magnetic Glass Particles Suspension***

No data available

#### ***Elution Buffer***

No data available

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

#### ***Wash Buffer I (d-WB I m/l)***

Not relevant

#### ***Wash Buffer II (WB II)***

Not relevant

#### ***Wash Buffer III***

Not relevant

#### ***Lysis/Binding Buffer***

Not relevant

#### ***Proteinase K***

Not relevant

#### ***Magnetic Glass Particles Suspension***

Not relevant

#### ***Elution Buffer***

Not relevant

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### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### ***Wash Buffer I (d-WB I m/l)***

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### ***Wash Buffer II (WB II)***

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### ***Wash Buffer III***

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### ***Lysis/Binding Buffer***

Assessment : This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### **Components:**

#### **alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl):**

Assessment : The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

#### ***Proteinase K***

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to



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REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Magnetic Glass Particles Suspension**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Elution Buffer**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **12.7 Other adverse effects**

#### **Wash Buffer I (d-WB I m/l)**

No data available

#### **Wash Buffer II (WB II)**

No data available

#### **Wash Buffer III**

No data available

#### **Lysis/Binding Buffer**

No data available

#### **Proteinase K**

No data available

### **Magnetic Glass Particles Suspension**

No data available

### **Elution Buffer**

No data available

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : The product contains a substance on REACH Annex XIV at or above 0.1% w/w. Cartridges / rests of product to be disposed of as if it was hazardous waste.

The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.

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Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 3316  
RID : UN 3316  
IMDG : UN 3316  
IATA : UN 3316

#### 14.2 UN proper shipping name

ADR : CHEMICAL KIT  
RID : CHEMICAL KIT  
IMDG : CHEMICAL KIT  
IATA : Chemical kit

#### 14.3 Transport hazard class(es)

ADR : 9  
RID : 9  
IMDG : 9  
IATA : 9

#### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : M11  
Labels : 9  
Tunnel restriction code : (E)

**RID**  
Packing group : II  
Classification Code : M11  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : II  
Labels : 9  
EmS Code : F-A, S-P

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 960  
Packing instruction (LQ) : Y960

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Packing group : II  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 960  
Packing instruction (LQ) : Y960  
Packing group : II  
Labels : Miscellaneous

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Remarks : No data available

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks : Not applicable

## SECTION 15: Regulatory information

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

Seveso III: Directive : P5c FLAMMABLE LIQUIDS  
2012/18/EU of the European  
Parliament and of the Council  
on the control of major-  
accident hazards involving  
dangerous substances.

Water hazard class (Germany) : WGK 2 obviously hazardous to water

#### **Wash Buffer I (d-WB I m/l)**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

### The components of this product are reported in the following inventories:

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

TECI : Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 28,4 %

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

Hazard pictograms :



Signal word : Warning

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Hazard statements : H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:  
50-01-1 guanidinium chloride

### **Wash Buffer II (WB II)**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

### **The components of this product are reported in the following inventories:**

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

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|                            |   |   |
|----------------------------|---|---|
| NZIoC                      | : | On the inventory, or in compliance with the inventory   |
| ENCS                       | : | On the inventory, or in compliance with the inventory   |
| ISHL                       | : | On the inventory, or in compliance with the inventory   |
| KECI                       | : | On the inventory, or in compliance with the inventory   |
| PICCS                      | : | On the inventory, or in compliance with the inventory   |
| IECSC                      | : | On the inventory, or in compliance with the inventory   |
| TCSI                       | : | On the inventory, or in compliance with the inventory   |
| TSCA                       | : | All substances listed as active on the TSCA inventory   |
| TECI                       | : | Not in compliance with the inventory  |
| Volatile organic compounds | : | Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)<br>Volatile organic compounds (VOC) content: 37,92 % |

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### **Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### **Storage:**

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

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### **Wash Buffer III**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

### **The components of this product are reported in the following inventories:**

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

TECI : Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

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

Not a hazardous substance or mixture.

### Lysis/Binding Buffer

|  |  |
|--|--|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered:<br>Number on list 3  |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).  | : alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl)   |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer  | : Not applicable   |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast)  | : Not applicable   |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals                 | : Not applicable   |
| REACH - List of substances subject to authorisation (Annex XIV)  | : alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl)<br>For customers in the European Economic Area:, Contains SVHC:, octyl/nonylphenol ethoxylates., For use in research and under controlled conditions only, # acc. to Art. 56.3 and 3.23 REACH Regulation. |

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

|       |  |
|-------|--|
| AIIC  | : On the inventory, or in compliance with the inventory  |
| DSL   | : All components of this product are on the Canadian DSL |
| NZIoC | : On the inventory, or in compliance with the inventory  |
| ENCS  | : On the inventory, or in compliance with the inventory  |
| ISHL  | : On the inventory, or in compliance with the inventory  |



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|                            |   |  |
|----------------------------|---|--|
| KECI                       | : | Not in compliance with the inventory   |
| PICCS                      | : | On the inventory, or in compliance with the inventory  |
| IECSC                      | : | On the inventory, or in compliance with the inventory  |
| TCSI                       | : | On the inventory, or in compliance with the inventory  |
| TSCA                       | : | All substances listed as active on the TSCA inventory  |
| TECI                       | : | Not in compliance with the inventory   |
| Volatile organic compounds | : | Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)<br>Not applicable |

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

|                                |   |  |
|--------------------------------|---|--|
| Hazard pictograms              | : |    |
| Signal word                    | : | <b>Danger</b>  |
| Hazard statements              | : | <b>H302</b> Harmful if swallowed.<br><b>H314</b> Causes severe skin burns and eye damage.<br><b>H412</b> Harmful to aquatic life with long lasting effects.  |
| Supplemental Hazard Statements | : | <b>EUH032</b> Contact with acids liberates very toxic gas.<br><b>EUH071</b> Corrosive to the respiratory tract.  |
| Precautionary statements       | : | <b>Prevention:</b><br><b>P273</b> Avoid release to the environment.<br><b>P280</b> Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.<br><b>Response:</b><br><b>P301 + P330 + P331</b> IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br><b>P303 + P361 + P353</b> IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.<br><b>P304 + P340 + P310</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.<br><b>P305 + P351 + P338 + P310</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a |

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POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

593-84-0

guanidinium thiocyanate

9002-93-1

alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl)

### Proteinase K

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

Proteinase, Tritirachium album serine

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

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|                            |   |  |
|----------------------------|---|--|
| PICCS                      | : | Not in compliance with the inventory   |
| IECSC                      | : | On the inventory, or in compliance with the inventory  |
| TCSI                       | : | On the inventory, or in compliance with the inventory  |
| TSCA                       | : | Product contains substance(s) not listed on TSCA inventory.  |
| TECI                       | : | Not in compliance with the inventory   |
| Volatile organic compounds | : | Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)<br>Not applicable |

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

|                          |   |  |
|--------------------------|---|--|
| Hazard pictograms        | : |  |
| Signal word              | : | <b>Danger</b>  |
| Hazard statements        | : | <b>H315</b> Causes skin irritation.<br><b>H317</b> May cause an allergic skin reaction.<br><b>H319</b> Causes serious eye irritation.<br><b>H334</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br><b>H335</b> May cause respiratory irritation.   |
| Precautionary statements | : | <b>Prevention:</b><br><b>P261</b> Avoid breathing dust.<br><b>P264</b> Wash skin thoroughly after handling.<br><b>P280</b> Wear protective gloves/ eye protection/ face protection.<br><b>P284</b> Wear respiratory protection.<br><b>Response:</b><br><b>P304 + P340 + P312</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.<br><b>P342 + P311</b> If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. |

Hazardous components which must be listed on the label:

39450-01-6 **Proteinase, Tritirachium album serine**

### Magnetic Glass Particles Suspension

REACH - Restrictions on the manufacture, placing on : Conditions of restriction for the fol-

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the market and use of certain dangerous substances,  
preparations and articles (Annex XVII)

lowing entries should be considered:  
Number on list 3

REACH - Candidate List of Substances of Very High  
Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-  
plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-  
tants (recast)

: Not applicable

Regulation (EC) No 649/2012 of the European Parlia-  
ment and the Council concerning the export and import  
of dangerous chemicals

: Not applicable

REACH - List of substances subject to authorisation  
(Annex XIV)

: Not applicable

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national  
regulations, where applicable.

### The components of this product are reported in the following inventories:

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not  
on the Canadian DSL nor NDSL.

Magnetic glass particles (MGP)

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

TECI : Not in compliance with the inventory

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

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emissions (integrated pollution prevention and control)  
Not applicable

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

Hazard pictograms :



Signal word :

**Danger**

Hazard statements :

**H225** Highly flammable liquid and vapour.  
**H319** Causes serious eye irritation.  
**H336** May cause drowsiness or dizziness.

Precautionary statements :

#### **Prevention:**

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P233** Keep container tightly closed.  
**P261** Avoid breathing mist or vapours.  
**P280** Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### **Response:**

**P303 + P361 + P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
**P370 + P378** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

67-63-0

**propan-2-ol**

### **Elution Buffer**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import : Not applicable

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of dangerous chemicals

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

### The components of this product are reported in the following inventories:

|                            |  |
|----------------------------|--|
| AIIC                       | : On the inventory, or in compliance with the inventory  |
| DSL                        | : All components of this product are on the Canadian DSL   |
| NZIoC                      | : On the inventory, or in compliance with the inventory  |
| ENCS                       | : On the inventory, or in compliance with the inventory  |
| ISHL                       | : On the inventory, or in compliance with the inventory  |
| KECI                       | : On the inventory, or in compliance with the inventory  |
| PICCS                      | : On the inventory, or in compliance with the inventory  |
| IECSC                      | : On the inventory, or in compliance with the inventory  |
| TCSI                       | : On the inventory, or in compliance with the inventory  |
| TSCA                       | : All substances listed as active on the TSCA inventory  |
| TECI                       | : Not in compliance with the inventory   |
| Volatile organic compounds | : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)<br>Not applicable |

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

Not a hazardous substance or mixture.

## 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

|      |  |
|------|--|
| H225 | : Highly flammable liquid and vapour.      |
| H302 | : Harmful if swallowed.                    |
| H312 | : Harmful in contact with skin.            |
| H314 | : Causes severe skin burns and eye damage. |
| H315 | : Causes skin irritation.                  |
| H317 | : May cause an allergic skin reaction.     |
| H318 | : Causes serious eye damage.               |
| H319 | : Causes serious eye irritation.           |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## MagNA Pure LC Total Nucleic Acid Isolation Kit

Version  
6.0

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|      |   |  |
|------|---|--|
| H332 | : | Harmful if inhaled.  |
| H334 | : | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | : | May cause respiratory irritation.  |
| H336 | : | May cause drowsiness or dizziness.   |
| H411 | : | Toxic to aquatic life with long lasting effects.                           |
| H412 | : | Harmful to aquatic life with long lasting effects.                         |

### Full text of other abbreviations

|                 |   |  |
|-----------------|---|--|
| Acute Tox.      | : | Acute toxicity                                   |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard               |
| Eye Dam.        | : | Serious eye damage                               |
| Eye Irrit.      | : | Eye irritation                                   |
| Flam. Liq.      | : | Flammable liquids                                |
| Resp. Sens.     | : | Respiratory sensitisation                        |
| Skin Corr.      | : | Skin corrosion                                   |
| Skin Irrit.     | : | Skin irritation                                  |
| Skin Sens.      | : | Skin sensitisation                               |
| STOT SE         | : | Specific target organ toxicity - single exposure |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

# SAFETY DATA SHEET

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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